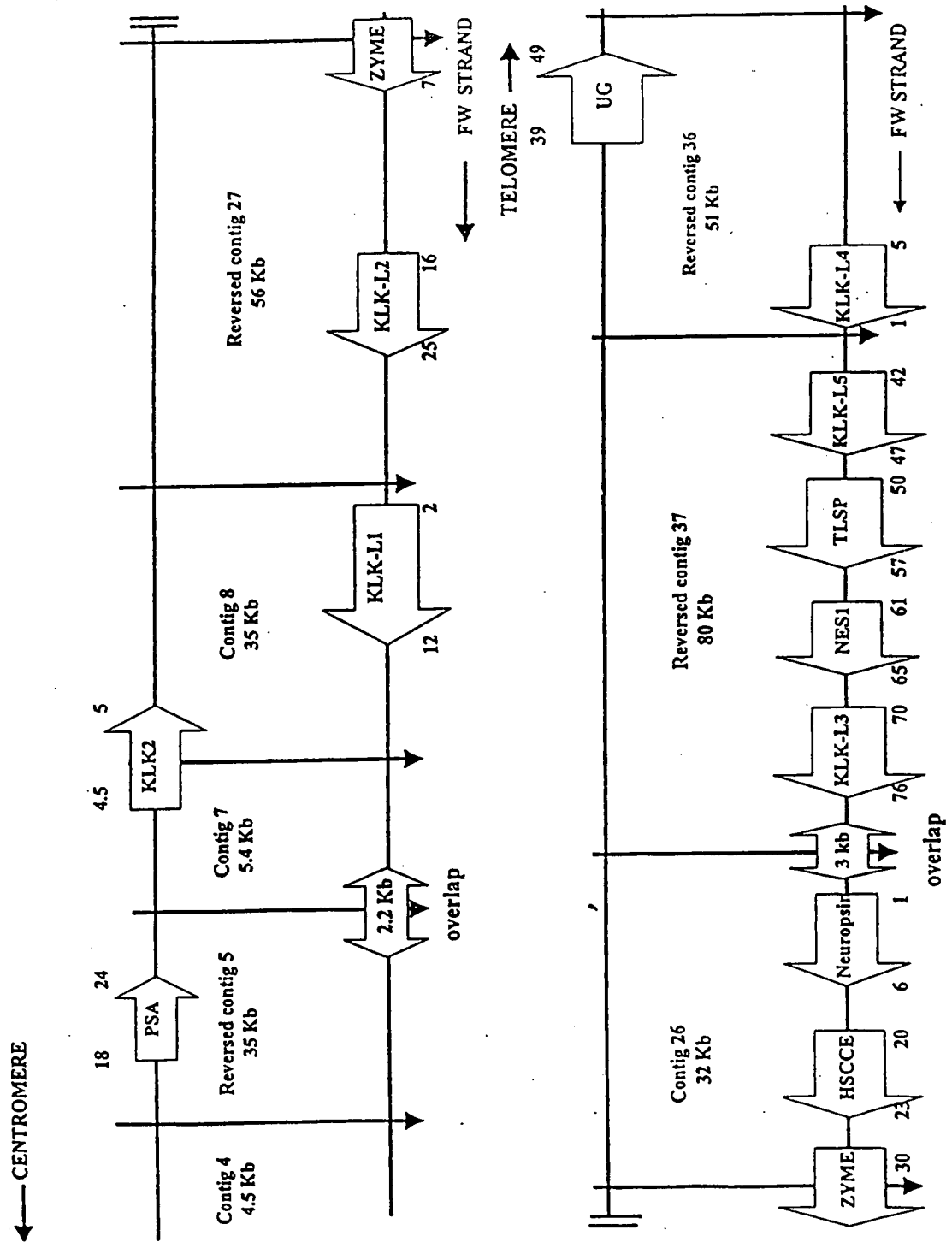


FIGURE 1



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FIGURE 2

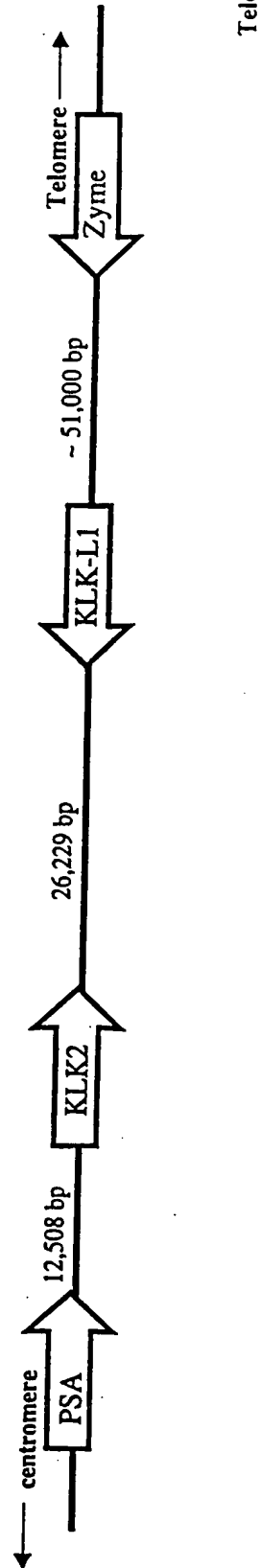


FIGURE 3

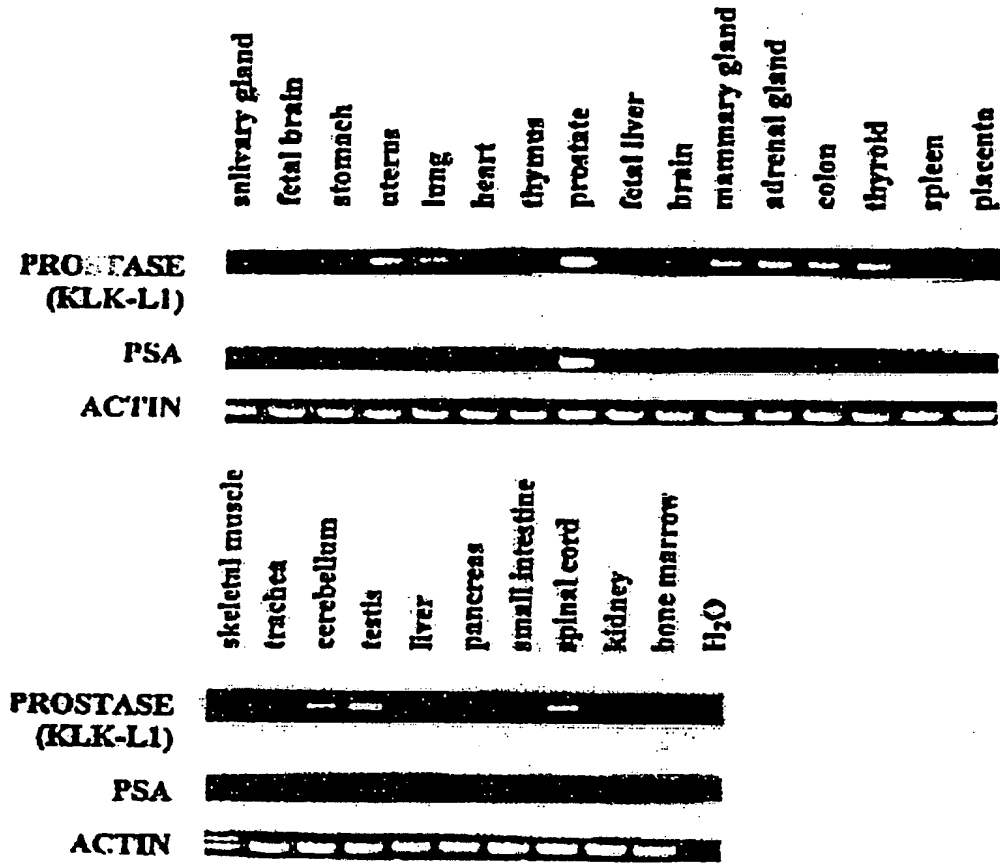


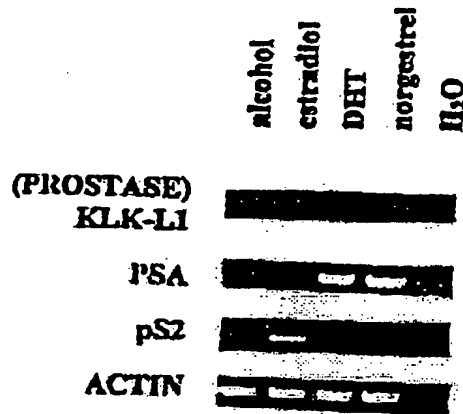
FIGURE 4

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TGACCCGCTG TACCACCCCA GCATGTTCTG CGCCGGCGGA GGGCAAGACC
AGAAGGACTC CTGCAACGGT GACTCTGGGG GGCCCTGAT CTGCAACGGG
TACTTGCAGG GCCTTGTGTC TTTCGGAAAA GCCCGTGTG GCCAAGTTGG
CGTGCCAGGT GCCTACACCA ACCTCTGCAA ATTCAGTGA TGGATAGAGA
AAACCGTCCA GGCCAGTTAA CTCTGGGGAC TGGGAACCCA TGAAATTGAC
CCCCAAATAC ATCCTGCGGA AGGAATTC

FIGURE 5

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FIGURE 6

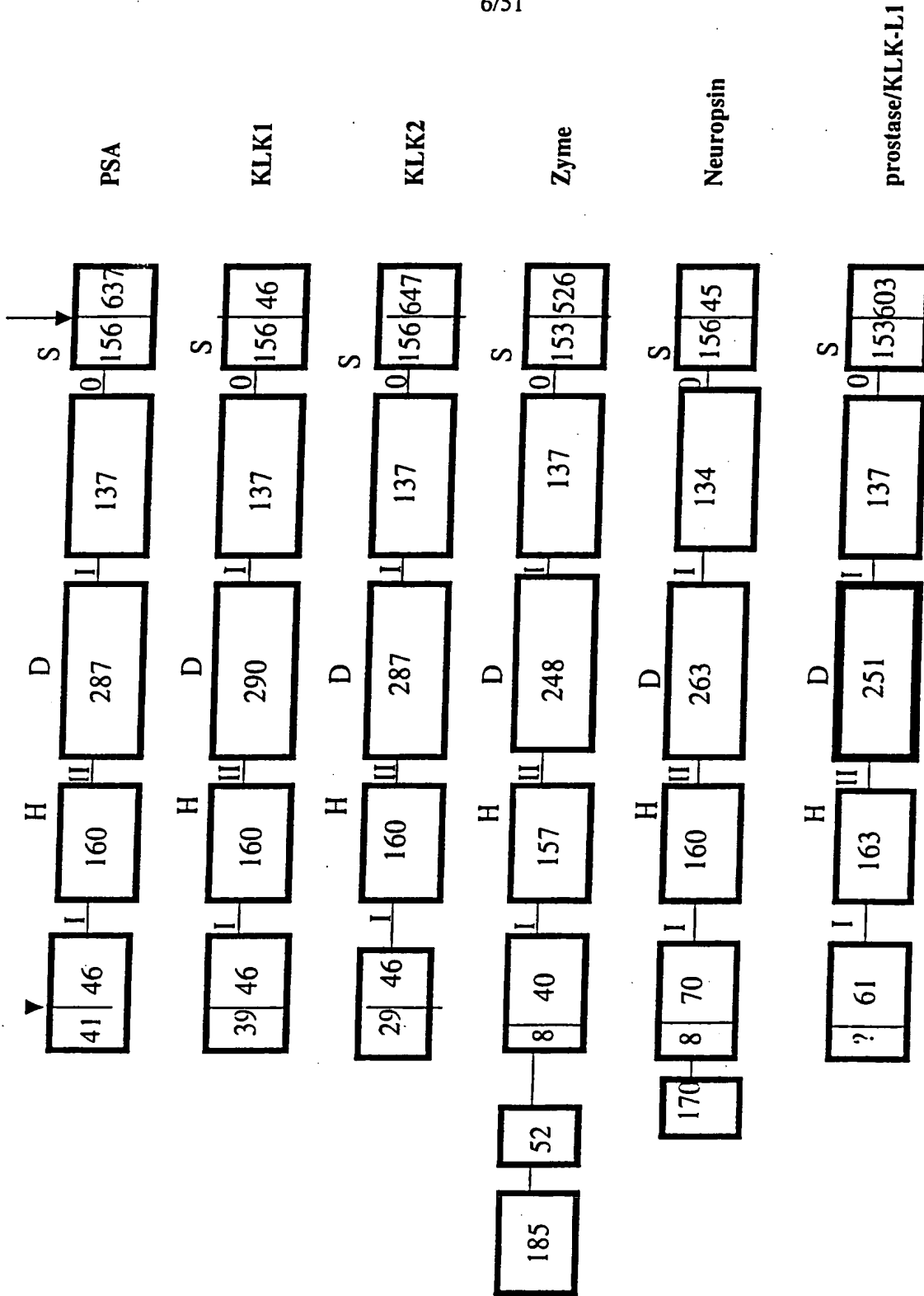
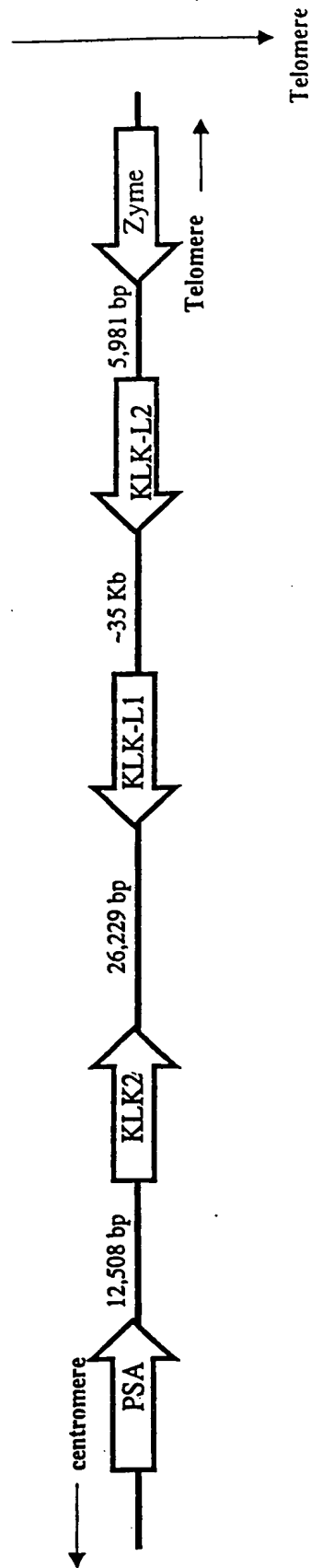


FIGURE 7

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(ATG)GCTACAGCAAGACCCCCCTGGATGTGGGTGCTCTGTGCTCTGATCACAGCCT
 M A T A R P P W M W V L C A L I T A
 TGCTTCTGGGGGTCACAG[gt]aaccaga ----- intron 1 ----- tccc[gt]
 L L L G V T
 AGCATGTTCTCGCCAACAATGATGTTTCTGTGACCACCCCTCTAACACCGTGCCC
 E H V L A N N D V S C D H P S N T V P
 TCTGGGAGCAACCAGGACCTGGGAGCTGGGGCCGGGAAGACGCCCGGTGCGAT
 S G S N Q D L G A G A G E D A R S D
 GACAGCAGCAGCCGCATCATCAATGGATCCGACTGCGATATGCACACCCAGCCGT
 D S S S R I I N G S D C D M H T Q P
 GGCAGGCCGCGCTGTTGCTAAGGCCCAACCAGCTCTACTGCGGGGCGGTGTTGGT
 W Q A A L L L R P N Q L Y C G A V L V
 GCATCCACAGTGGCTGCTCACGGCCGCCCACTGCAGGAAGAA[gt]gagtgga -----
 H P Q W L L T A A H C R K K
 ----- intron 2 ----- tcttctc[gt]AGTTTTCAGAGTCCGTCT
 V F R V R L
 CGGCCACTACTCCCTGTCACCAGTTTATGAATCTGGGCAGCAGATGTTCCAGGGG
 G H Y S L S P V Y E S G Q Q M F Q G
 GTCAAATCCATCCCCACCCTGGCTACTCCCACCCTGGCCACTCTAACGACCTCAT
 V K S I P H P G Y S H P G H S N D L M
 GTCATCAAAGTGAACAGAAGAATTCGTCCTAAAGATGTCAGACCCATCAAC
 L I K L N R R I R P T K D V R P I N
 GTCTCCTCTCATTGTCCCTCTGCTGGGACAAAGTGCTTGGTGTCTGGCTGGGGGAC
 V S S H C P S A G T K C L V S G W G T
 AACCAAGAGCCCCCAAG[gt]gagtgccag[gt] ----- intron 3 ----- tgacag[gt]
 T K S P Q
 TGCATTCCCTAAGGTCCTCCAGTGCTTGAATATCAGCGTGCTAAGTCAGAAAAG
 V H F P K V L Q C L N I S V L S Q K R
 GTGCGAGGATGCTTACCCGAGACAGATAGATGACACCATGTTCTGCGCCGGTGAC
 C E D A Y P R Q I D D T M F C A G D
 AAAGCAGGTAGAGACTCCTGCCAG[gt]gaggacacc ----- intron 4 ----- []
 ag
 K A G R D S C Q
 GGTGATTCTGGGGGGCCTGTGGTCTGCAATGGCTCCCTGCAGGGACTCGTGTCTCT
 G D S G G P V V C N G S L Q G L V S
 GGGGAGATTACCCTTGTGCCCCGCCCAACAGACCGGGTGTCTACACGAACCTCTG
 W G D Y P C A R P N R P G V Y T N L C
 CAAGTTCACCAAGTGGATCCAGGAAACCATCCAGGCCAACTCOT GAGT CATCC
 CA
 K F T K W I Q E T I Q A N S
 GGACTCAGCACACCGGCATCCCCACCTGCTGCAGGGACAGCCCTGACACTCCTTT
 CAGACCTCATTCCTTCCCAGAGATGTTGAGAATGTTTCATCTCTCCAGCCCTGAC
 CCCATGTCTCCTGGACTCAGGGTCTGCTTCCCCCACATTGGGCTGACCGTGTCTCT
 CTAGTTGAACCTGGGAACAATTTCCAAAAGTGTCCAGGGCGGGGGTTGCGTCTC
 AATCTCCCTGGGGCACTTTTCATCTCAAGCTCAGGGCCCATCCCTTCTCTGCAGCT
 CTGACCCAAATTTAGTCCCAGAAATAAACTGAGAAG

FIGURE 8

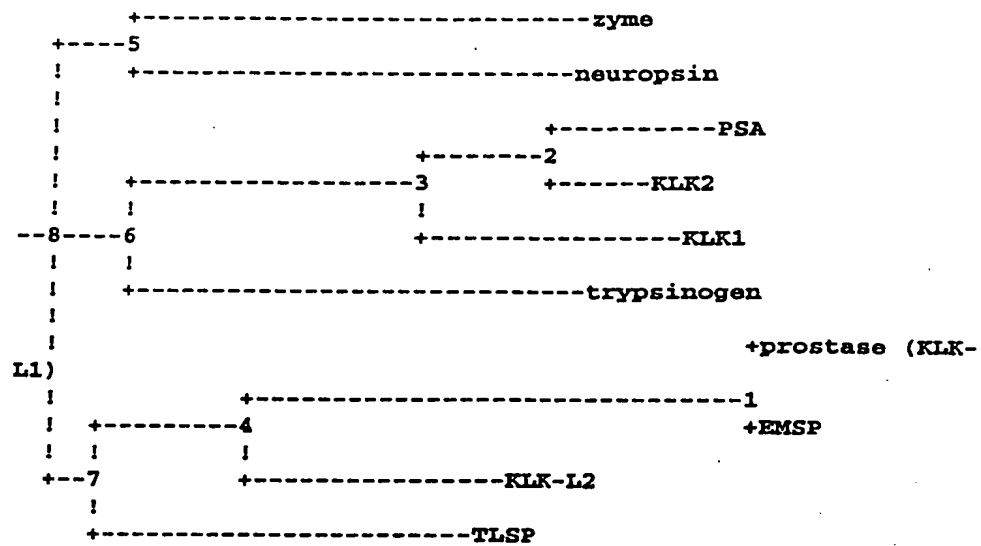


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FIGURE 10

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(A)



(B)

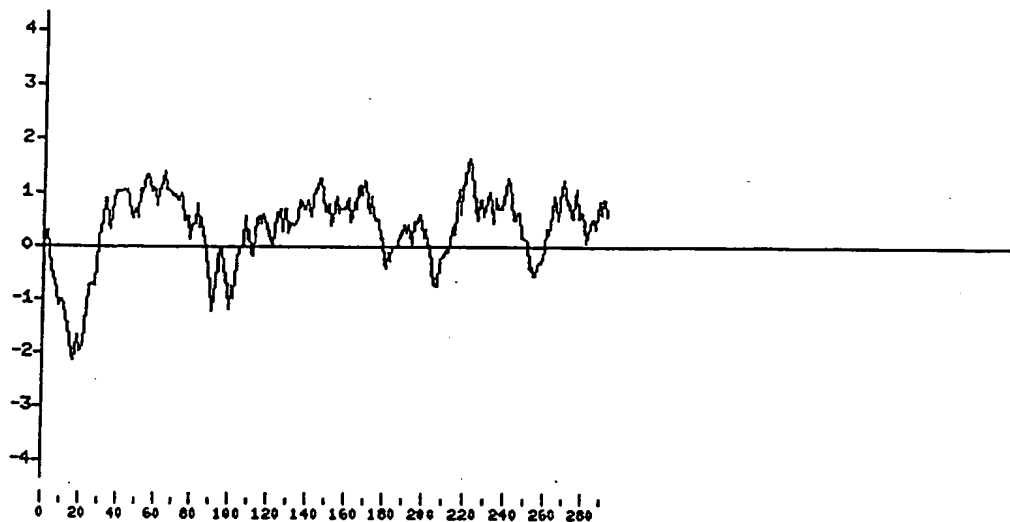
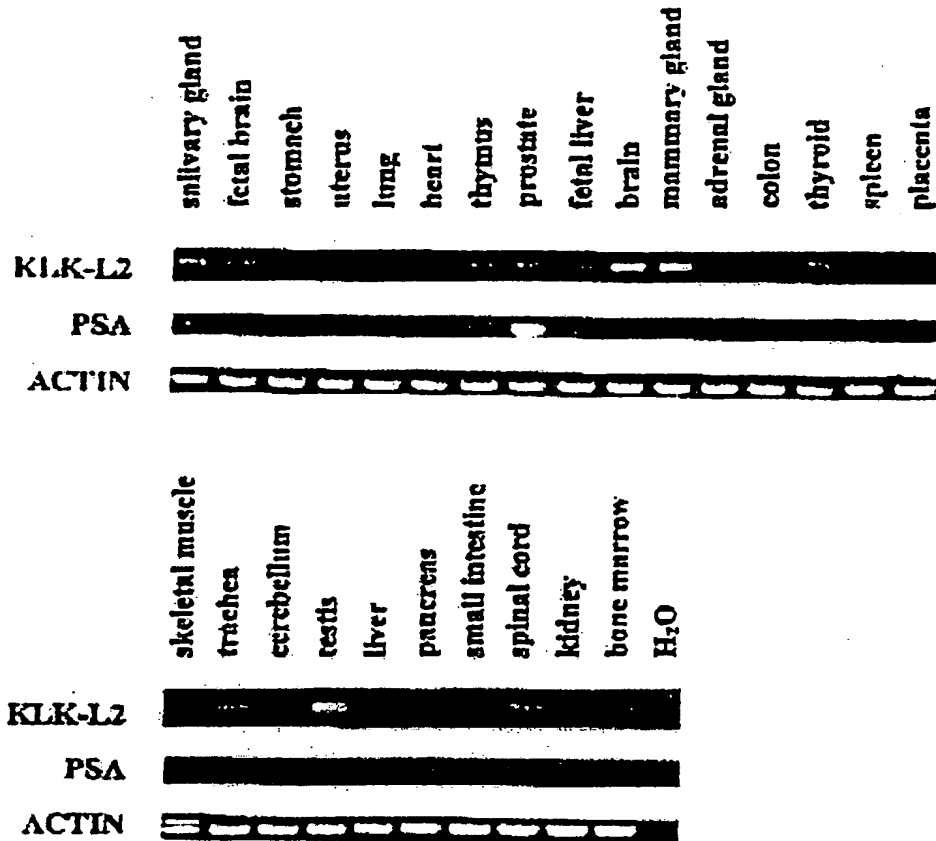


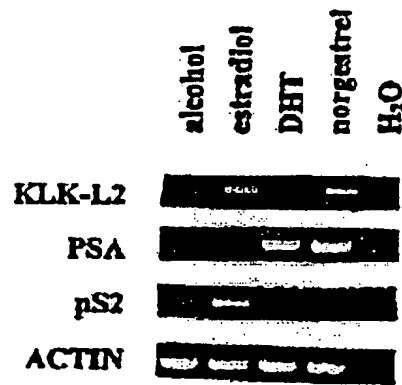
FIGURE 11



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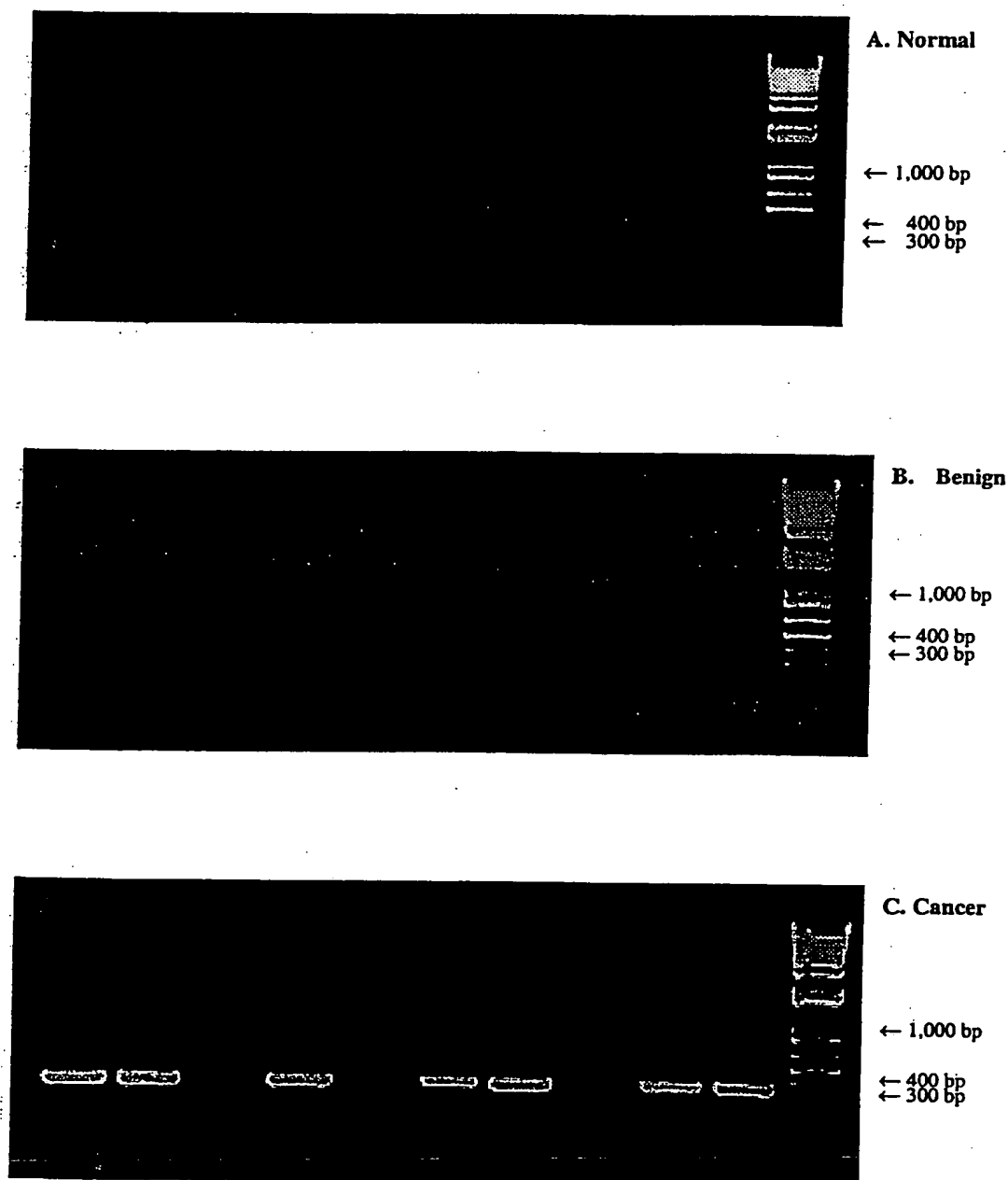
FIGURE 12

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FIGURE 13



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FIGURE 14

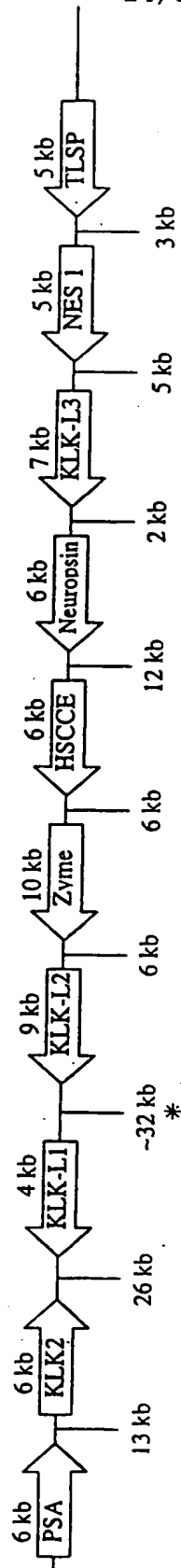


FIGURE 15

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CACTGGACGGGTGCACGTTTCAGGATCCAGGTGCCAGGGGTCAAG CTG GGA
CTC
M K L G L

CTC TGT GCT CTG CTC TCT CTG CTG GCA G tga... intron 1 ..cag GG CAT
GGC
L C A L L S L L A G H
G

TGG GCA GAC ACC CGT GCC ATC GGG GCC GAG GAA TGT CGC CCC AAC TCC
CAG
W A D T R A I G A E E C R C N S
Q

CCT TGG CAG GCC GGC CTC TTC CAC CTT ACT CGG CTC TTC TGT GGG GCG
ACC
P W Q A G L F H L T R L F C G A T

CTC ATC AGT GAC CGC TGG CTG CTC ACA GCT GCC CAC TGC CGC AAG
CCgtga.....
L I S D R W L L T A A H C R K P

intron 2gcagG TAT CTG TGG GTC CGC CTT GGA GAG CAC CAC CTC TGG AAA
Y L W V R L G E H H L W K

TGG GAG GGT CCG GAG CAG CTG TTC CGG GTT ACG GAC TTC TTC CCC CAC
CCT
W E G P E Q L F R V T D F F P H P

GGC TTC AAC AAG GAC CTC AGC GCC AAT GAC CAC AAT GAT GAC ATC ATG
CTG
G F N K D L S A N D H N D D I M L

ATC CGC CTG CCC AGG CAG GCA CGT CTG AGT CCT GCT GTG CAG CCC CTC
AAC
I R L P R Q A R L S P A V Q P L N

CTC AGC CAG ACC TGT GTC TCC CCA GGC ATG CAG TGT CTC ATC TCA GGC
TGG
L S Q T C V S P G M Q C L I S G W

GGG GCC GTG TCC AGC CCC AAG G tat..... intron acag CG CTG TTT CCA
GTC
G A V S S P K A L F P
V

ACA CTG CAG TGT GCC AAC ATC AGC ATC CTG GAG AAC AAA CTC TGT CAC
TGG
T L Q C A N I S I L E N K L C H W

GCA TAC CCT GGA CAC ATC TCG GAC AGC ATG CTC TGT GCG GGC CTG TGG
GAG
A Y P G H I S D S M L C A G L W E

GGG GGC CGA GGT TCC TGC CAG G tga..... intron ..acag GGT GAC TCT GGG
GGC
G G R G S C Q G D S G
G

CCC CTG GTT TGC AAT GGA ACC TTG GCA GGC GTG GTG TCT GGG GGT GCT
GAG
P L V C N G T L A G V V S G G A E

FIGURE 15 (CONT'D)

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CCC TGC TCC AGA CCC CGG CGC CCC GCA GTC TAC ACC AGC GTA TGC CAC
TAC

P C S R P R R P A V Y T S V C H Y

CTT GAC TGG ATC CAA GAA ATC ATG GAG AAC (TGA)
L D W I Q E I M E N

GCCCGCGCGCCACGGGGGCACCTTGGAAGACCAAGAGAGGCCGAAGGGCACGGGGTA
GGGGGTTCTCGTAGGGTCCCAGCCTCAATGGTTCCCGCCCTGGACCTCCAGCTGCCCTG
ACTCCCCTCTGGACACTAAGACTCCGCCCCTGAGGCTCCGCCCCCTCACGGGTCAAGCA
AGACACAGTCGCGCCCCCTCGGAACGGAGCAGGGACACGCCCTTCAGAGCCGTCTCTAT
GACGTCACCGACAGCCATCACCTCCTTCTTGGAACAGCACAGCCTGTGGCTCCGCCCCA
AGGAACCACTTACACAAAATAGCTCCGCCCCCTCGGAACCTTTGCCCAAGTGGGACTTCCCC
TCGGGACTCCACCCCTTGTGGCCCCGCCTCCTTACCAGAGATCTCGCCCCCTCGTGATGT
CAGGGGCGCAGTAGCTCCGCCCACGTGGAGCTCGGGCGGTGTAGAGCTCAGCCCTTGTG
GCCCCGTCTGGGCGTGTGCTGGGTTTGAATCCTGGCGGAGACCTGGGGGGAAATTGAG
GGAGGGTCTGGATACCTTTAGAGCCAATGCAACGGATGATTTTTTCAGTAAACGGGGAAA
CCTCA

FIGURE 16

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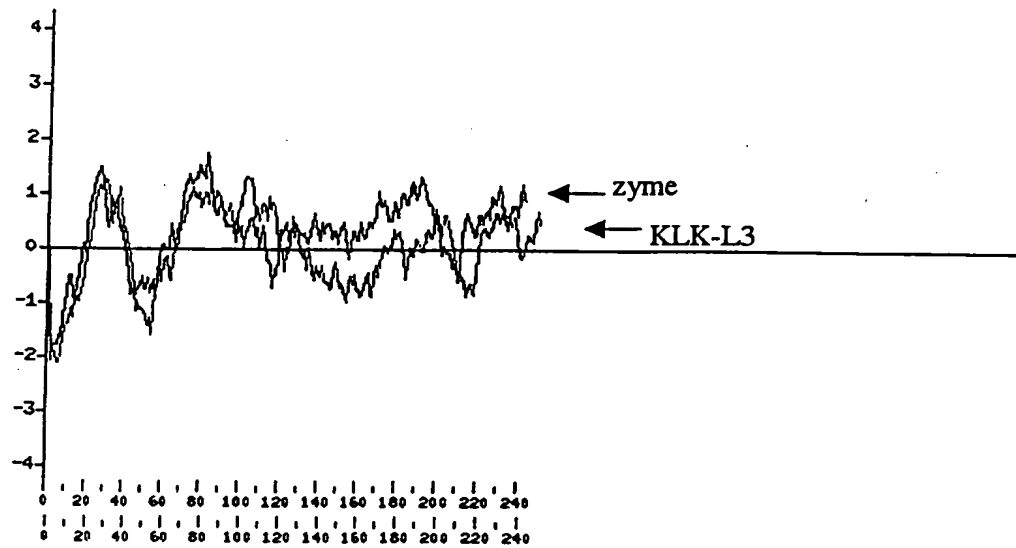


FIGURE 17

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PSA -----MWVPVFLTLVSVTWIGAAPLI-LSRIVGGWECEKHSQPWQVLVASRGRAVC
KLK2 -----MWDLVLSIALSVGCTGAVPLI-QSRIVGGWECEKHSQPWQVAVYSHGWAHC
KLK1 -----MWFLVLCALSLGGTGAAPPI-QSRIVGGWECEQHSQPWQAALYHFSTFQC
trypsinogen -----MNPLLILTFVAAALAAPFDD-DDKIVGGYNCEENSVPYQVSLNS-GYHFC
KLK-L3 -----MKLGLLCALLSLLAGHGWA--DTRAIGAEECRPN SQPWQAGLFHLTRLFC
TLSP -----MRI-LQLILLALATGLVGG--ETRI IKGFECKPHSQPWQAALFEKTRLLC
neuropsin -MGRPRPRAAKTWMFLLLGGAWAGHSRAQ-EDKVLGGHECQPHSQPWQAALFQGGQLLC
zyme -----MKK--LMVVLSLIAAAWAE--QNKLVHGGPCDKTSHPYQAALYTSGLLHC
HSCCE ---MARSLLLPLQILLLSLALETAGEEAQG--DKIIDGAPCARGSHPWQVALLSGNQLHC
prostase ---MA-TAGNPWGWLFLGYLILGVAGSLVSGSCSQIINGEDCSPHSQPWQAALVMENELFC

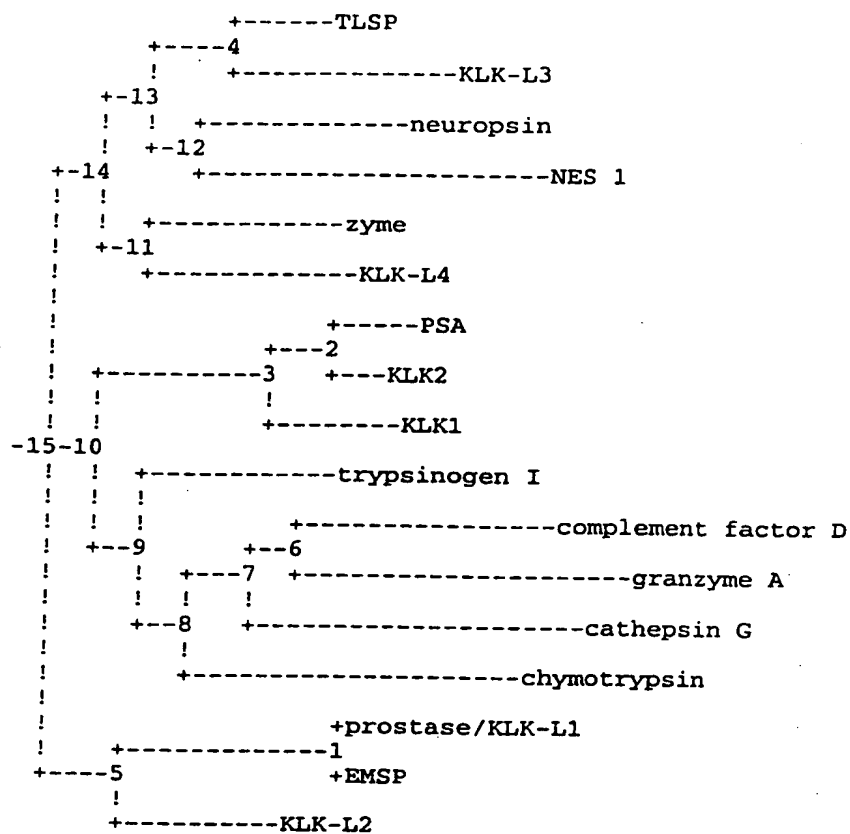
PSA GGVLVHPCVLTAAHCLRNKSVILLGRHSLFHPEDT-GQVFQVSHSFPHPLYDMSLLKNR
KLK2 GGVLVHPCVLTAAHCLKNKSVVWLGRHNLFEEDT-GQRPVSHSFPHPLYNMSLLKHQ
KLK1 GGVLVHPCVLTAAHCLSDNYQLWLGRHNLFDENT-AQFVHVSESFPHPGFNMSLLNENH
trypsinogen GGSLINECIVVSAGHCYKSRIQVRLGEHNIEVLEGN-EQFINAAKIIIRHPQYDRKTLNN
KLK-L3 GATLISDRNLLTAHCLKPYLWVRLGEHHLWKWEGP-EQLFRVTDFFPHPGFNKDLNAN-
TLSP GATLIAPRLLTAHCLKPRYIVHLGQHNLQKEEGC-EQTRTATESFPHPGFNNSLPNK-
neuropsin GGVLVGGNVLTAHCLKPKYTIVRLGDHSLQNKDGP-EQEIPIVQSIHPPCYNSSD-VE-
zyme GGVLIHPLVLTAHCLKPNLQVFLGKHNLRQRESS-QEQQSVVRVVIHPDYDAAS----
HSCCE GGVLVNERVLTAHCLKMNEYTVHLGSDTLGDRR---AQRIKASKSFRHPGYSTQT----
prostase SGVLVHPCVLTAAHCFONSYYTIGLGLHSLEADQEPGSGMVESLSVRHPEYNRPLLAN-

PSA FLRPGDDSSHDLMLRLRLSEPAE-LTDAVKVMDLPTQEPALGTTTCYASGWGSIEPEEFLTP
KLK2 SLRPDEDSHDLMLRLRLSEPAE-ITDVVKVLGLPTQEPALGTTTCYASGWGSIEPEEFLRP
KLK1 TRQADEYSHDLMLRLRLTEPADTITDAVKVVELPTEPEVGSTCLASGWGSIEPENFSFP
trypsinogen -----DMLIKLSSRAV-INARVSTISLPTAPPATGKCLISGWGNTASSGADYP
KLK-L3 -----DHNDDMLIRLPRQAR-LSPAVQPLNLSQTCVSPGMQCLISGWGAVSSPKALFP
TLSP -----DHRNDMLVLMASPVLS-ITWAVRPLTLSSRCVTAGTSCSLISGWGTSSTSPQLRLP
neuropsin -----DHNHDLMLQLRQDQAS-LGSKVKPISLADHCTQPGQKCTVSGWGTVTSPRENFP
zyme -----HDQDMLRLRLARPAK-LSELIQPLPLERDCSANTTSCHILGWGKTADG--DFP
HSCCE -----HVNDEMLVKLNSQAR-LSSMVKVRLPSRCEPPGTCTCTVSGWGTSTSPDVTTFP
prostase -----DLMLIKLDESVS-ESDTIRISISASQCPTAGNSCLVSGWGLLANG--RMP

PSA KKLQCVDLHVISNDVCAQVHPQKVTKFMLCAGRWTTGGKSTCSGDGGPLVCNGVLQGIT
KLK2 RSLQCVSLHLLSNDMCAAYSEKVFEMLCAGLWTGGKDTCCGDGGPLVCNGVLQGIT
KLK1 DDLQCVDLKILPNDECKKAHVQKVTDFMLCVGHLEGGKDTCCGDGGPLMCDGVQLQGVTS
trypsinogen DELQCLDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDSQCGDGGPVVCNGQLQGVVS
KLK-L3 VTLQCANISILENKLCHWAYPGHISDSMLCAGLWEGGRGSCQGDGGPLVCNGTLAGVVS
TLSP HTLRCANITIEHQKCEAYPGNITDTMVCASVQEGGKDSQCGDGGPLVCNQSLQGIIS
neuropsin DTLNCAEVKIFPQKCEDAYPGQITDGMVCAGSSKG-ADTCQGDGGPLVCDGALQGIT
zyme DTIQCAYIHLVSREECEHAYPGQITQNMLCAGDEKYGKDSQCGDGGPLVCGDHLRGLVS
HSCCE SDLMCVDVKLISPDCTKVYKDLLENSMLCAGIPDSKKNACNGDGGPLVCRGTLOGLVS
prostase TVLQCVNVSVVSEEVCSKLYDPLYPHPSMFCAGGGHDQKDSQCGDGGPLICNGYLQGLVS

PSA WGSEPCALPERPSLYTKVVHYRKWKDTIVANP
KLK2 WGPEPCALPEKPAVYTKVVHYRKWKDTIAANP
KLK1 WGYVPCGTPNKPVSVAVRVLSYVKWIEDTIAENS
trypsinogen WG-DGCAQKNKPGVYTKVYNYVKWKNTIAANS
KLK-L3 GGAEPSCRPRRPVYTSVCHYLDWIQEIEMEN--
TLSP WGQDPCAITRKPGVYTKVCKYVDWIQETMKN-
neuropsin WGSDFGGRSDKPGVYTNICRYLDWIKKIIGSKG
zyme WGNIPCGSKEKPGVYTNVCRYTNWIQKTIQAK-
HSCCE WGTFFCGQPNDPGVYTVQCKFTKWINDTMKKHR
prostase FGKAPCGQVGPVYTNLCFTIEWIEKTVQAS-

FIGURE 18



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FIGURE 19

Water			
Bone Marrow			
Kidney			
Spinal cord			
Small Intestine			
Pancreas			
Liver			
Testis			
Cerebellum			
Trachea			
Skeletal Muscle			
Placenta			
Spleen			
Thyroid			
Colon			
Adrenal Gland			
Mammary Gland			
Brain			
Fetal Liver			
Prostate			
Thymus			
Heart			
Lung			
Uterus			
Stomach			
Fetal Brain			
Salivary Gland			
	KLK-L3	Actin	PSA

FIGURE 20

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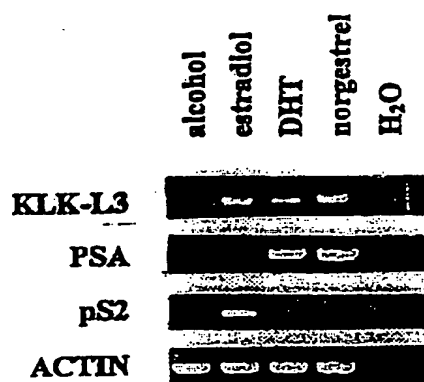


FIGURE 21

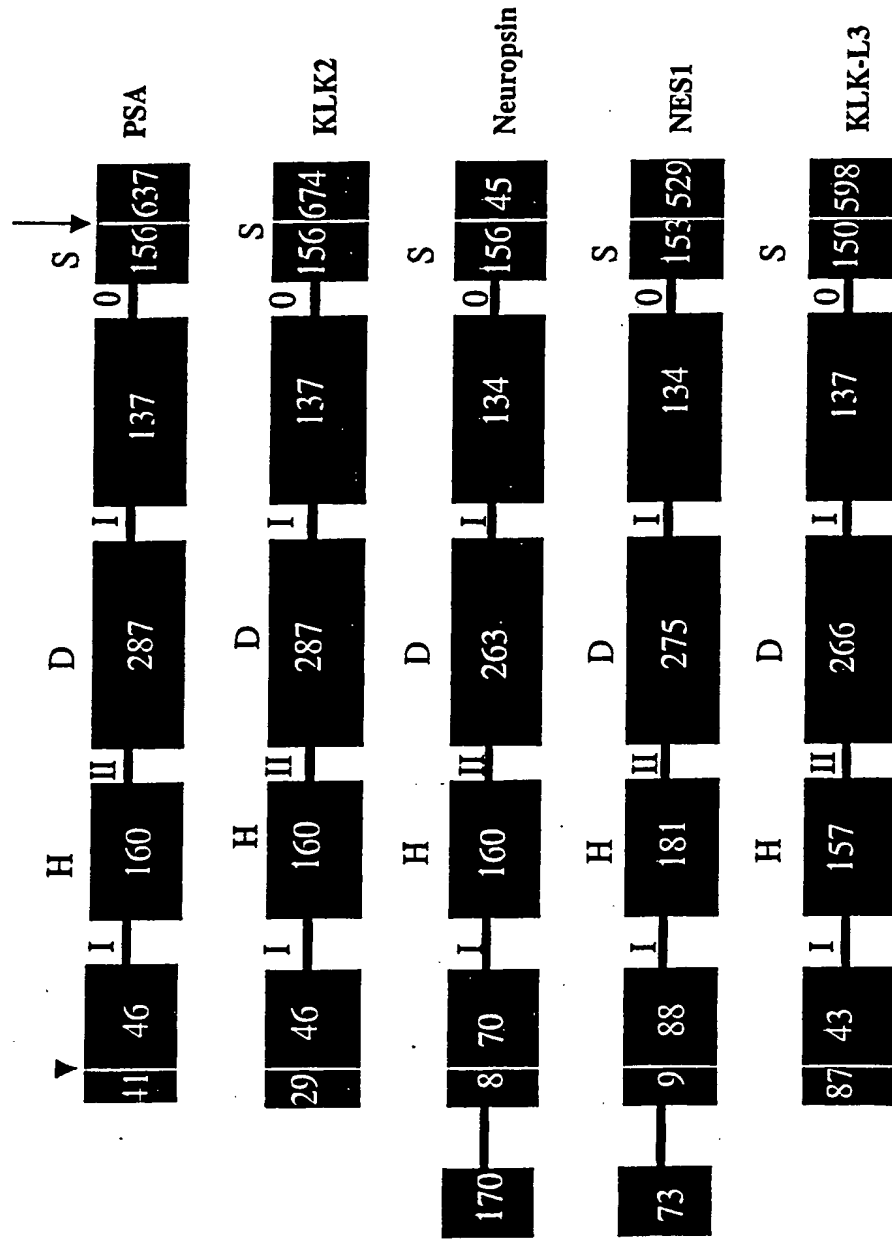


FIGURE 22

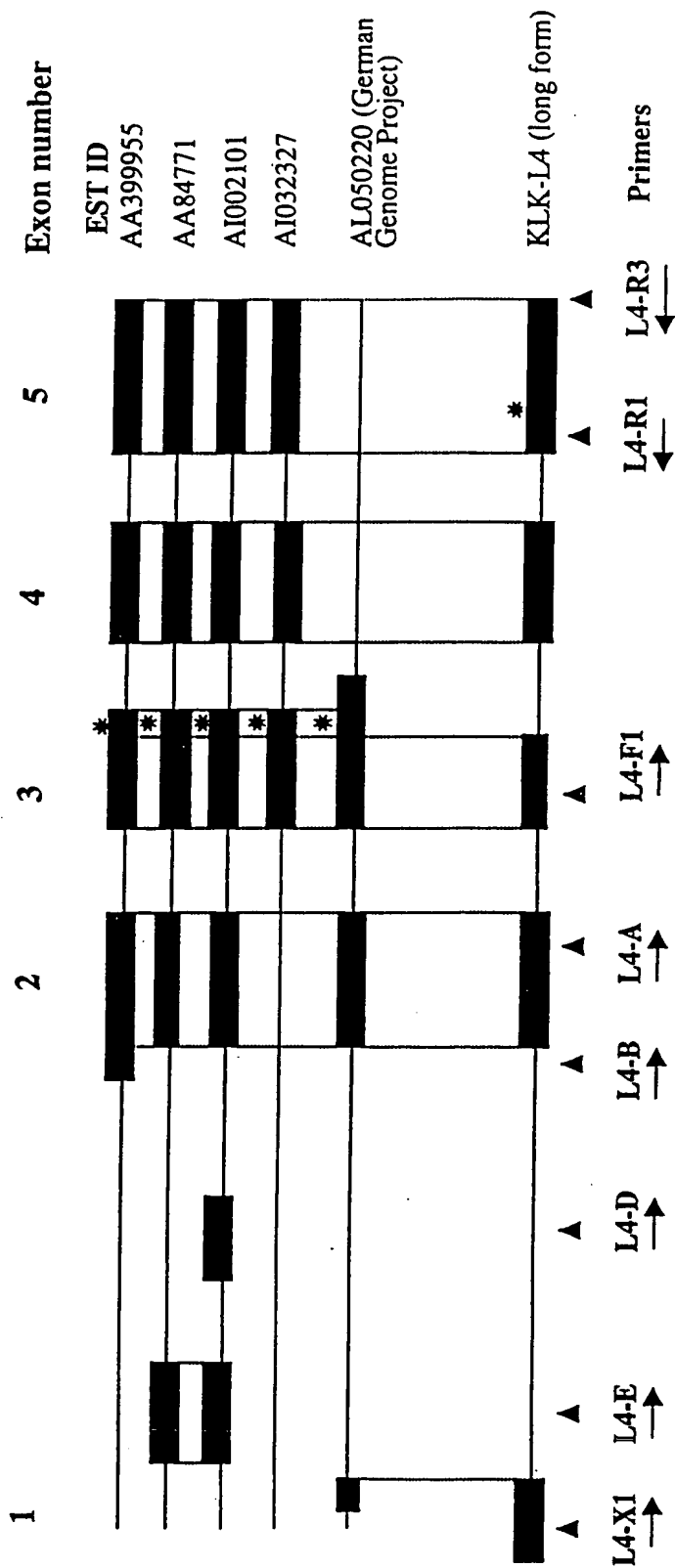
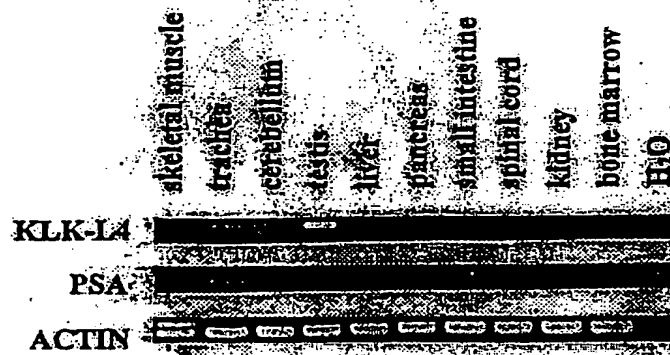
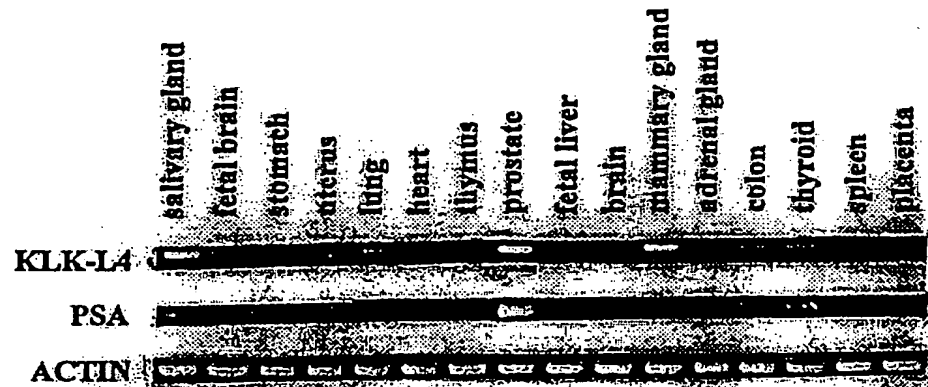


FIGURE 23

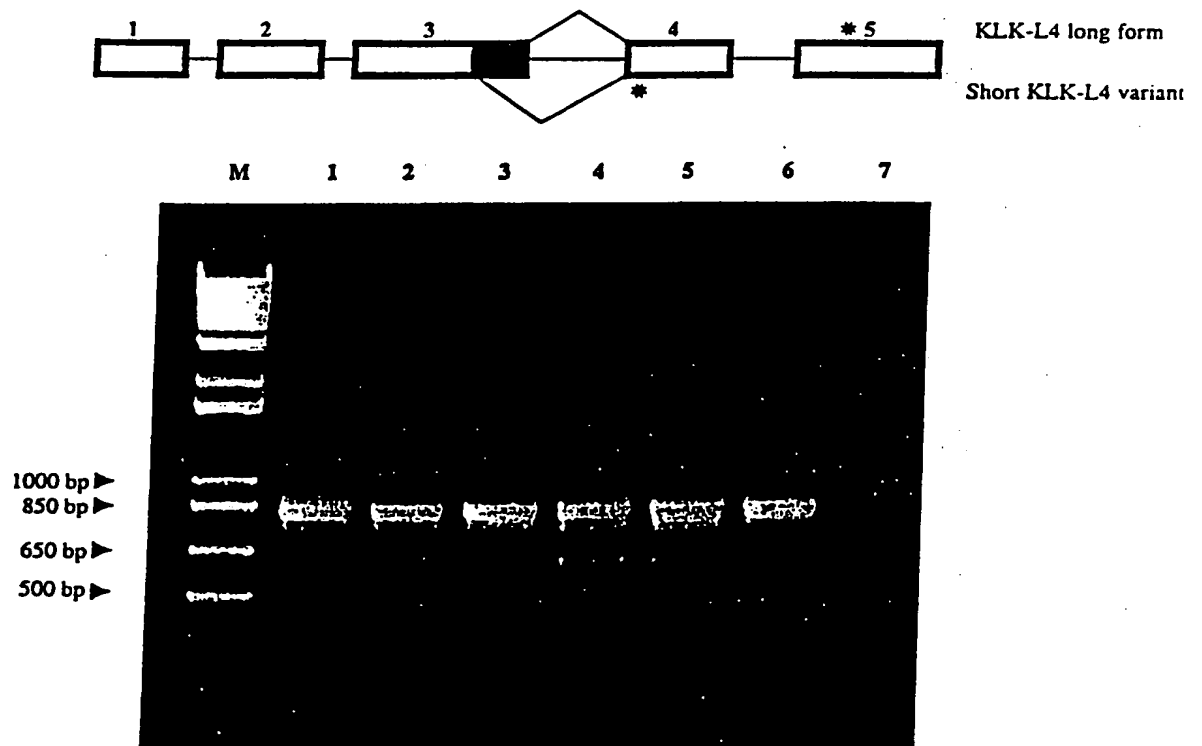
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FIGURE 24



SUBSTITUTE SHEET (RULE 26)

TCAGGCCCCGCCCCGCCCTGCCCTCCCCTCCCGATCCCGGAGCC (ATG) TGG CCC CTG GCC
M W P L A
CTA GTG ATC GCC TCC CTG ACC TTG GCC TTG TCA GGA G...gtaaga.... intron 1 ttaccag
L V I A S L T L A L S G
GT GTC TCC CAG GAG TCT TCC AAG GTT CTC AAC ACC AAT GGG ACC AGT GGG TTT
G V S Q E S S K V L N T N G T S G F
CTC CCA GGT GGC TAC ACC TGC TTC CCC CAC TCT CAG CCC TGG CAG GCT GCC
L P G G Y T C F P H S Q P W Q A A
CTA CTA GTG CAA GGG CGG CTA CTC TGT GGG GGA GTC CTG GTC CAC CCC AAA
L L V Q G R L L C G G V L V H P K
TGG GTC CTC ACT GCC GCA CAC TGT CTA AAG GA gtatgt intron 2..... cacag G GGG
W V L T A A [H] C L K E G
CTC AAA GTT TAC CTA GGC AAG CAC GCC CTA GGG CGT GTG GAA GCT GGT GAG
L K V Y L G K H A L G R V E A G E
CAG GTG AGG GAA GTT GTC CAC TCT ATC CCC CAC CCT GAA TAC CGG AGA AGC
Q V R E V V H S I P H P E Y R R S
CCC ACC CAC CTG AAC CAC GAC CAT GAC ATC ATG CTT CTG GAG CTG CAG TCC
P T H L N H D H [D] I M L L E L Q S
CCG GTC CAG CTC ACA GGC TAC ATC CAA ACC CTG CCC CTT TCC CAC AAC AAC CGC
P V Q L T G Y I Q T L P L S H N N R
CTA ACC CCT GGC ACC ACC TGT CGG GTG TCT GGC TGG GGC ACC ACC ACC AGC
L T P G T T C R V S G W G T T T S
CCC CAG G gtatgcac... intron 3..... tcccc ag TG AAT TAC CCC AAA ACT CTA CAA TGT GCC
P Q V N Y P K T L Q C A
AAC ATC CAA CTT CGC TCA GAT GAG GAG TGT CGT CAA GTC TAC CCA GGA AAG
N I Q L R S D E E C R Q V Y P G K
ATC ACT GAC AAC ATG TTG TGT GCC GGC ACA AAA GAG GGT GGC AAA GAC TCC
I T D N M L C A G T K E G G K D S
TGT GAG gtatgca... intron 4..... aactcag GGT GAC TCT GGG GGC CCC CTG GTC TGT AAC
C E G D [S] G G P L V C N
AGA ACA CTG TAT GGC ATC GTC TCC TGG GGA GAC TTC CCA TGT GGG CAA CCT
R T L Y G I V S W G D F P C G Q P
GAC CGG CCT GGT GTC TAC ACC CGT GTC TCA AGA TAC GTC CTG TGG ATC CGT
D R P G V Y T R V S R Y V L W I R

FIGURE 25 (CONT'D)

GAA ACA ATC CGA AAA TAT GAA ACC CAG CAG CAA AAA TGG TTG AAG GGC CCA
E T I R K Y E T Q Q Q K W L K G P

CAA TAA AAGTTGAGAAATGTACCGGCTTCCATCCTGTCACCATGACTTCCTCAC
Q

ATGGTCTGCTTAGCCCTTCTCTGCTCCTTATTCCCAGTGTTCCATTTGAACCAGTGATCCATGTC
CTGAAAAATGCTCAATCTCAGCTAACATTCCATGTTTCAGAAGCATTTCAGGCACTGCCAGGCT
TGCAGTCTCCAGATGTTGCATCCCTGAAACATCTCAACAACCTGAATGTCCCAACCCAGACA
ATGGCCCAGGTCTCTCAACTTCATCAGTGTGGCTTCTATGAGCCCAGATCACCACCTGAACGT
TCTGTCTGTGGCACATTCTTAAATATTTCATCAGCCCATCTCAACAATATATGTCCTTATAAAT
GGACCATCCTTGACA

FIGURE 26

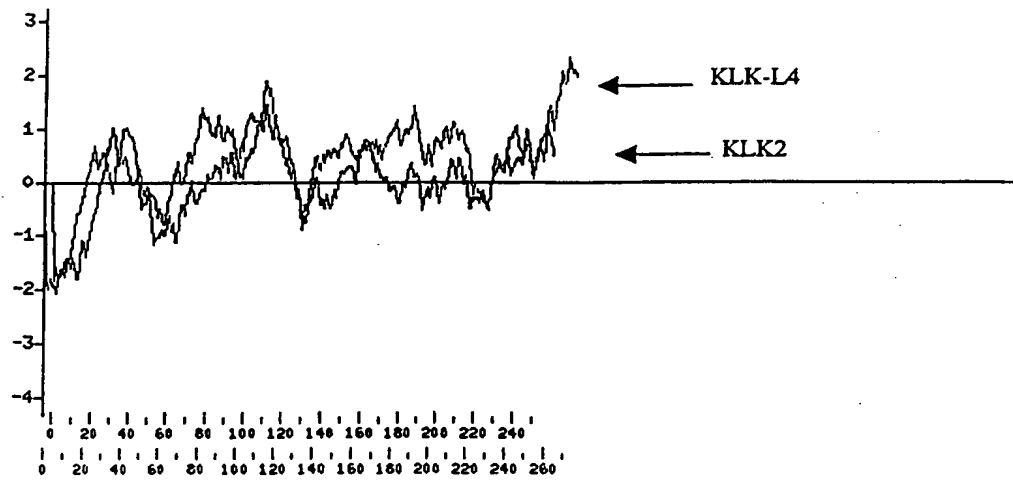


FIGURE 27

1	KLK-L1/protease	15 16	30 31	45 46	60 61	75 76	90
2	EMSP	---MATAGN PMGWFLG---	YLIL GVAG---	---	SLVSG---	---	IINGEDCSPHSQPMQ
3	KLK-L2	---MATAGN PMGWFLG---	YLIL GVAG---	---	SLVSG---	---	IINGEDCSPHSQPMQ
4	PSA	---MATARP PMMWLCALITALL	GVTEHVLANDVSCD	HPSTNTPVSGSNQDLG	AGAGEDARSDDSSR	---	IINGEDCDMHTQPMQ
5	KLK2	---MMVPUVF---	LTLV TWLG---	---	---	L---	SR IVGMECEKHSQPMQ
6	KLK1	---MMDLVLS---	IALLS GCTG---	---	---	Q---	SR IVGMECEKHSQPMQ
7	trypsinogen	---MNPILLI---	LTFVA AALA---	---	---	Q---	SR IVGMECEKHSQPMQ
8	zyme/protease M	---MKKLMV---	VLSL IAAA---	---	---	D---	DK IVGYNCEENSVPYQ
9	KLK-L4	---MM PLALVIA---	SLTL ALSG---	---	---	LNTNGTSGF	LPGGYTCFPHSQPMQ
10	TLSP	---MR ILQLILLALATGLVG	GETR---	---	---	---	IKGFECCKPHSQPMQ
11	neutropsin	---MGRPRPRA AKTNMFLLLGGAWA	GHSR---	---	---	---	VLGGHECQPHSQPMQ
12	NES1	MRAPHLHLSAASGAR	ALAKLLPLMLAQLWA	AEAA---	---	---	DTRLDP EAYGAPCARGSQPMQ
91	1	105 106	120 121	135 136	150 151	165 166	180
1	protease	AALVM-ENELFCGSGV	LVPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
2	EMSP	AALVM-ENELFCGSGV	LVPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
3	KLK-L2	AALLRNQLYCGAV	LVPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
4	PSA	VLVAS-RGRAVCGGV	LVPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
5	KLK2	VAVYS-HGWAHCGGV	LVPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
6	KLK1	AALYH-FSTFCGGV	LVPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
7	trypsinogen	VSLNS--GYHFCGGS	LINEQVVS GSGYK	SRIQVRLGHNIEVL	EGNEQFVHVSSEFP	HPQFNMSLLENHTRQ	ADEDYSHDMLIKLT
8	zyme	AALYT-SGHLLCGGV	LHPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
9	KLK-L4	AALLV-QGRLLCGGV	LHPQVVA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
10	TLSP	AALFE-KTRLCCGAT	LIAPR LAA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
11	neutropsin	AALFO-QQQLCCGV	LVGN LAA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
12	NES1	VSLFN-GLSFHCGV	LVDQS LAA SSGFQ	NSYITIGLGLHSLD	QEPGSMVEASLSVR	HPENRPLLAN---	DLMLIKLD
181	1	195 196	210 211	225 226	240 241	255 256	270
1	protease	ESVS-ESDTRISISI	ASQCPTAG-NSCLVS	GWGLLANG--RMPTV	LQCVNVSUVSEVCS	KLYDPLYPHSMFCAG	GGHDQKDCSCQDGGG
2	EMSP	ESVS-ESDTRISISI	ASQCPTAG-NSCLVS	GWGLLANG--RMPTV	LQCVNVSUVSEVCS	KLYDPLYPHSMFCAG	GGHDQKDCSCQDGGG
3	KLK-L2	RRIR-PTKDVVRPINV	SSHCPSAG-TKCLVS	GWGTTKSPQVHFVKV	LQCLNIVSLQKRC	DAYPROIDDTMFCAG	DKAG-RDSCQDGGG
4	PSA	EPAE-LTDAVKVNDL	PTQEPALG-TTCYAS	GWGSTEPEEFLTPKK	LQCVSLHLLSNDMCA	RAYSEKVTFFMLCAG	RWTGKSTCSQDGGG
5	KLK2	EPAD-ITDVKVVLGL	PTQEPALG-TTCYAS	GWGSTEPEEFLTPKK	LQCVSLHLLSNDMCA	RAYSEKVTFFMLCAG	RWTGKSTCSQDGGG
6	KLK1	EPADITDVKVVLGL	PTQEPALG-TTCYAS	GWGSTEPEEFLTPKK	LQCVSLHLLSNDMCA	RAYSEKVTFFMLCAG	RWTGKSTCSQDGGG
7	trypsinogen	SRV-ANARVSTISL	PTAPPAPG-STCLAS	GWGSTEPEEFLTPKK	LQCVSLHLLSNDMCA	RAYSEKVTFFMLCAG	RWTGKSTCSQDGGG
8	zyme	RPAP-LSELIQPLPL	ERDCSANT-TSCHIL	GWGTTADG--DFPDT	IQCAIYHLSVEE	HAYPGKITSMFCVG	FLEGGKDCSCQDGGG
9	KLK-L4	SPVQ-LTGYIQTPLPL	SHNRULTFGTTCRVS	GWGTTSPQVNYCPKT	LQCANIQLSDEECR	QVYPGKITSMFCVG	TKEGKDCSCQDGGG
10	TLSP	SPVS-LTGAVRPLTL	SSRCVTAG-TSCLIS	GWGTTSSPOLRUPHT	LCAENITIEHQKCE	NAYPGKITSMFCVG	VQEGKDCSCQDGGG
11	neutropsin	DQAS-LGSKVKPISL	ADHCTQPG-QKCTVS	GWGTTSPRENF PDT	LNCARVETFPQKCE	DAYPGKITSMFCVG	SSKG-ADTCQDGGG
12	NES1	RPVWP-GPRVRLQL	PYRCAQPG-DQCQVA	GWGTTAARVKYKNG	LTGSSITILSPKCE	VFPYGVITNMFCAG	LDRG-QDPCQDGGG

FIGURE 27 (CONT'D)

1	protease	271	285	286	300	301	315	316	330	331
2	EMSP	271	285	286	300	301	315	316	330	331
3	KLK-L2	271	285	286	300	301	315	316	330	331
4	PSA	271	285	286	300	301	315	316	330	331
5	KLK2	271	285	286	300	301	315	316	330	331
6	KLK1	271	285	286	300	301	315	316	330	331
7	trypsinogen	271	285	286	300	301	315	316	330	331
8	zyme	271	285	286	300	301	315	316	330	331
9	KLK-L4	271	285	286	300	301	315	316	330	331
10	TLSP	271	285	286	300	301	315	316	330	331
11	neuropsin	271	285	286	300	301	315	316	330	331
12	NES1	271	285	286	300	301	315	316	330	331

FIGURE 28

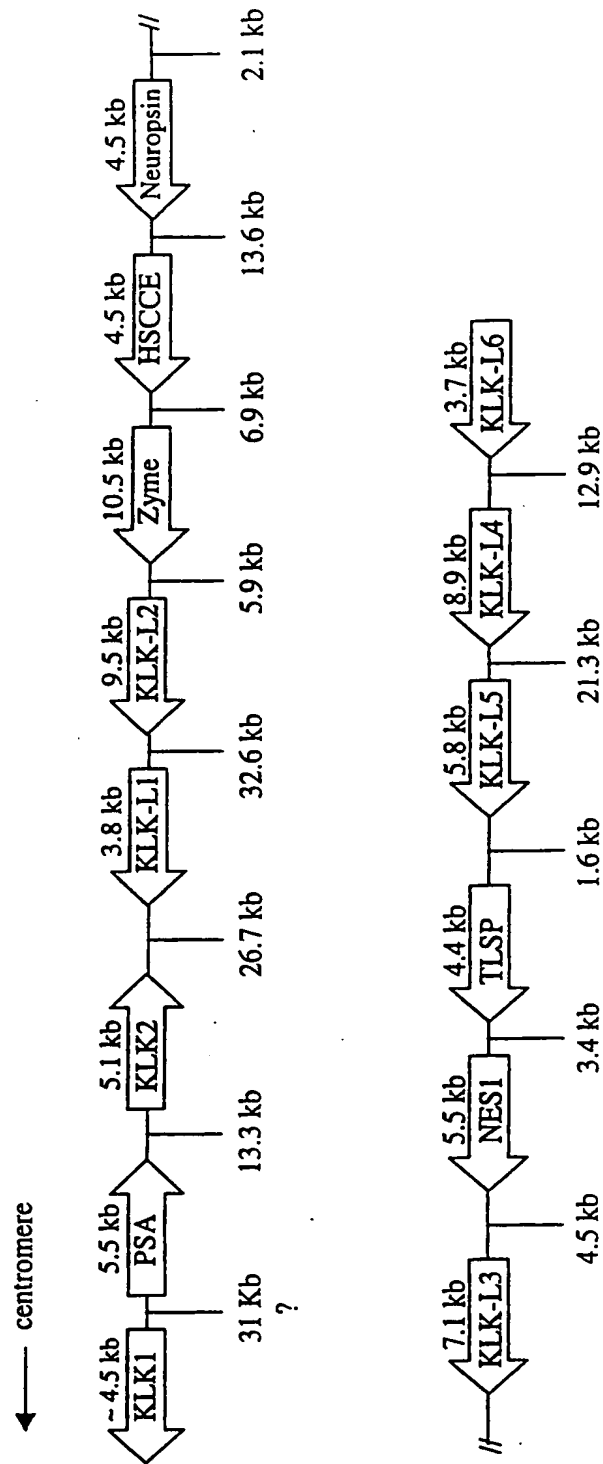
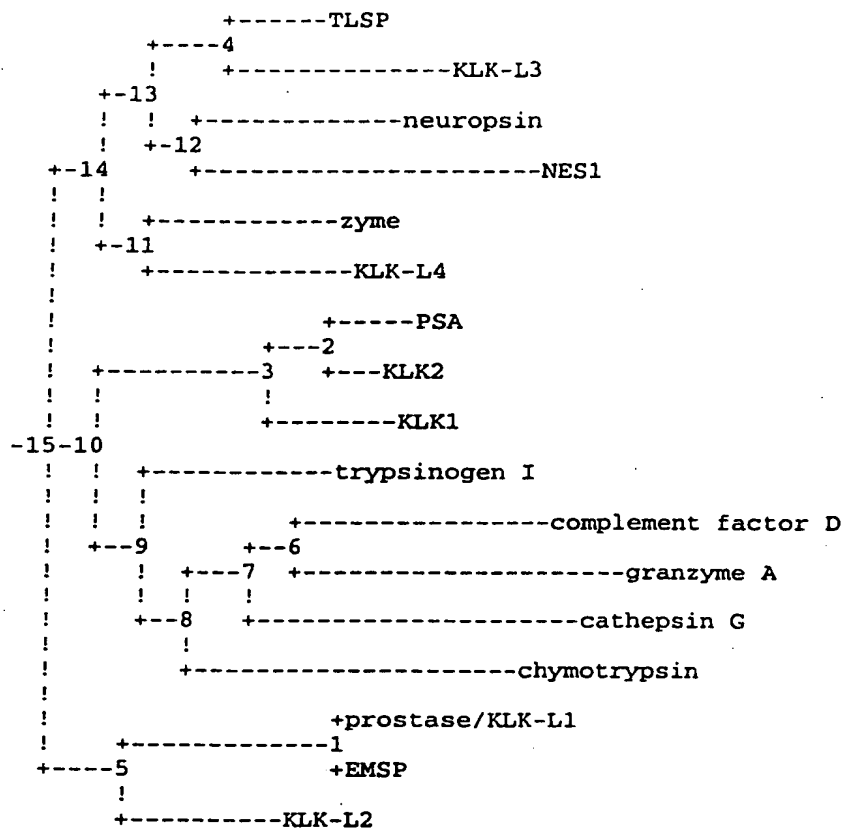


FIGURE 29



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FIGURE 30

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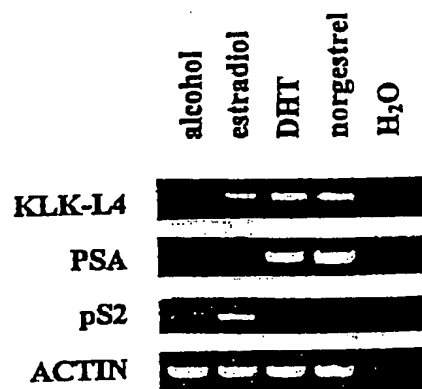


FIGURE 31

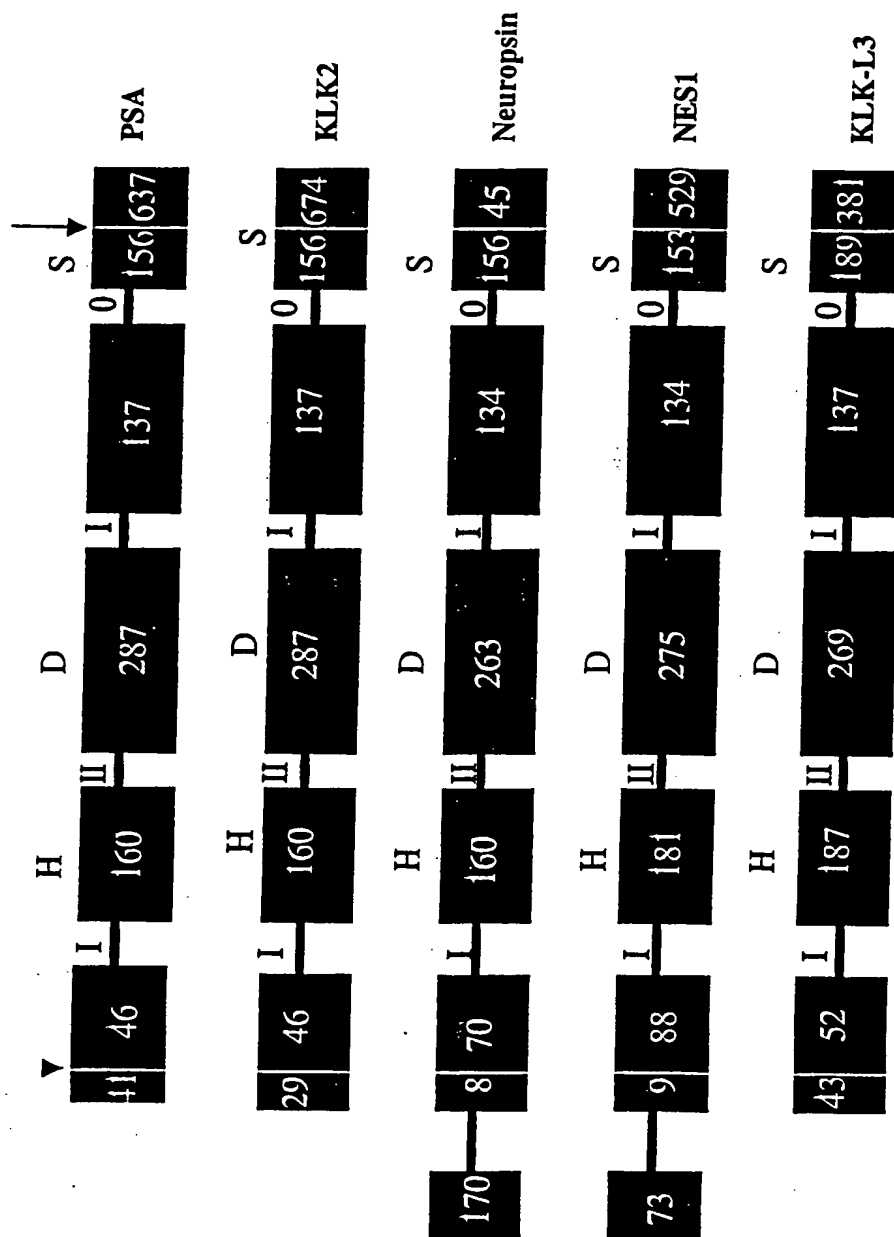


FIGURE 32

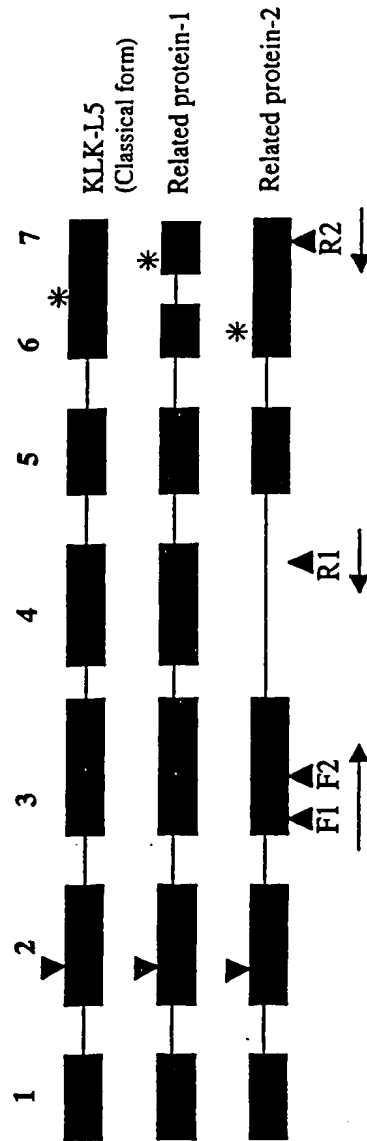


FIGURE 34

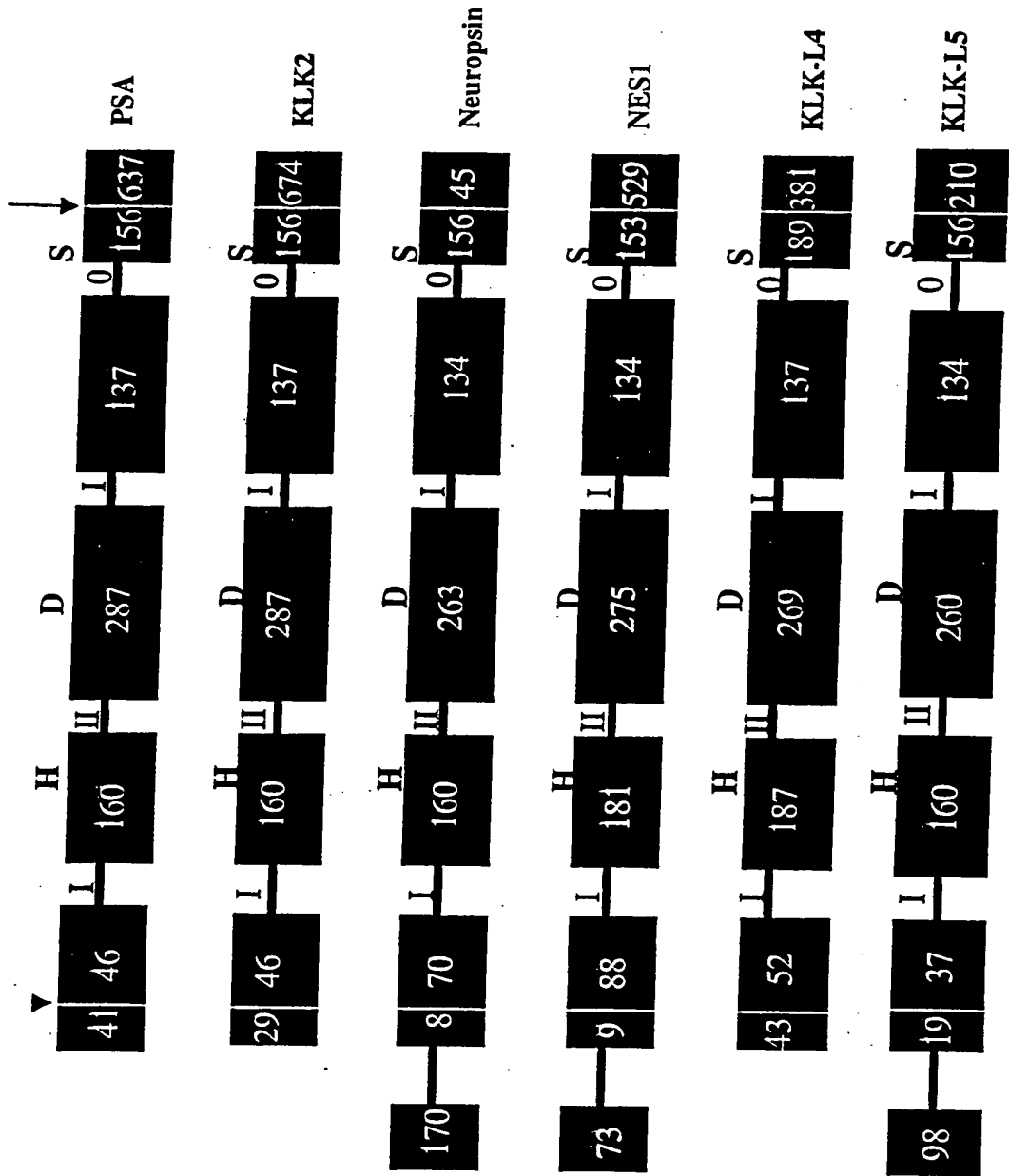


FIGURE 35

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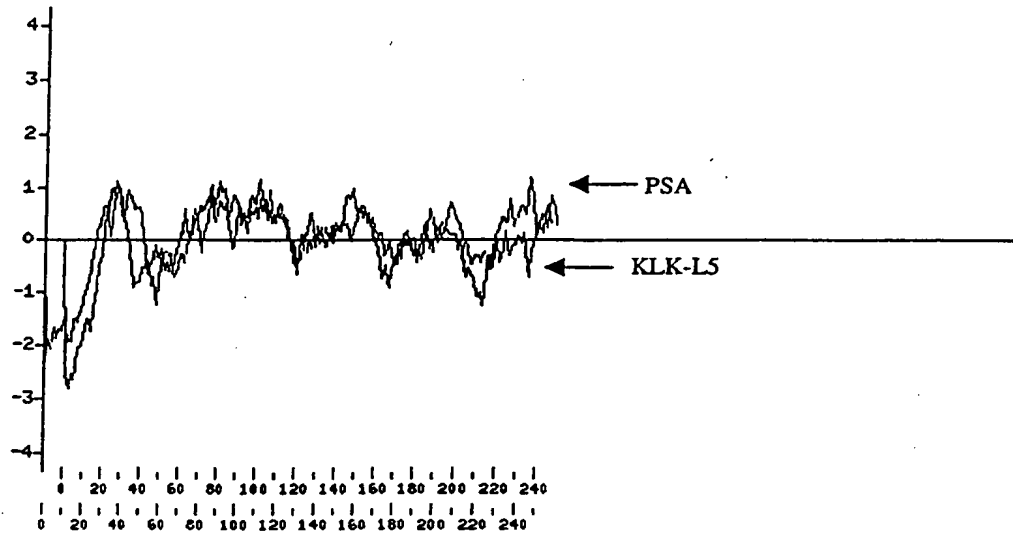


Figure 36

1	15	16	30	31	45	46	60	61	75	76	90
1	PSA	MMVPV-FLTLVTV	IGAAPLILSR	-----	-----	-----	IVGWECEKH	SQPMQVLVASRGRV	CSGVIVHPQWVLTAA	64	
2	hk2	MMDLVL-SIAISVGC	TGAAPLIQSR	-----	-----	-----	IVGWECEKH	SQPMQVAVYSHQWV	CSGVIVHPQWVLTAA	64	
3	hk1	MMDLVL-SIAISVGC	TGAAPLIQSR	-----	-----	-----	IVGWECEKH	SQPMQVAVYSHQWV	CSGVIVHPQWVLTAA	64	
4	prostate	MATAGN	PWGFGLYILIGVAG	S-LVSGSCSQ	-----	-----	IINGEDCSPH	SQPMQNALVMENELF	CSGVIVHPQWVLTAA	70	
5	zyme	MRKLAV	-----	VLSLIA	A-AWAEQNK	-----	LVHIGHCOKT	SHPQQAADYTSGLLL	CSGVIVHPQWVLTAA	61	
6	TLSP	MRILQILILALATGL	VGGETR	-----	-----	-----	IIGKECEKPH	SQPMQALFEKTRLL	CSGVIVHPQWVLTAA	61	
7	KLK-L4	MMPLALVIALSLTAL	SGGVSQESSKVLNTN	GTSGFLPGGVTCPH	-----	-----	SQPMQALLVQGRLL	CSGVIVHPQWVLTAA	75		
8	NES1	MRAPHLHLSAASGAR	ALAKLPLLLMAQLWA	AEAALLPQNDT	-----	-----	RLDPEAYGAPCARH	SQPMQVSLFNGLSFH	CSGVIVHPQWVLTAA	85	
9	KLK-L5	-----	MGLSIFLLICVLGL	SQAATPKIFN	-----	-----	GTGGRN	SQPMQVQVFEFTSLR	CSGVIVHPQWVLTAA	61	
10	neuropsin	-----	NRPR	PRAAKTMFELLILGG	AWAGHRAQE	-----	DKVLGGHECQPH	SQPMQALFQGGQLL	CSGVIVHPQWVLTAA	72	
91	105	106	120	121	135	136	150	151	165	166	180
1	PSA	HCIRNKSVILLGRHS	LFHPEDTG-QVFOVS	HSFPHPLDYMSLLKN	REFLRPGDSSSIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
2	hk2	HCIRNKSVILLGRHS	LFHPEDTG-QVFOVS	HSFPHPLDYMSLLKN	REFLRPGDSSSIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
3	hk1	HCIRNKSVILLGRHS	LFHPEDTG-QVFOVS	HSFPHPLDYMSLLKN	REFLRPGDSSSIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
4	prostate	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
5	zyme	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
6	TLSP	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
7	KLK-L4	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
8	NES1	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
9	KLK-L5	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
10	neuropsin	HCISDNVQLMGRHN	LFEDDENTA-QVHVS	ESFPHFPMNLSLEN	HTRQADEYSDIIDLMI	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
181	195	196	210	211	225	226	240	241	255	256	270
1	PSA	CYASQMSIEPEEFL	TPKHLQCVLHVLSN	DVCAQVHPOKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
2	hk2	CYASQMSIEPEEFL	TPKHLQCVLHVLSN	DVCAQVHPOKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
3	hk1	CYASQMSIEPEEFL	TPKHLQCVLHVLSN	DVCAQVHPOKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
4	prostate	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
5	zyme	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
6	TLSP	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
7	KLK-L4	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
8	NES1	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
9	KLK-L5	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		
10	neuropsin	CLASQMSIEPENFS	FEDDLQCVLHVLSN	DECKAHVGEKVTEN	LEAGRWTCQKSTGSG	-----	IRLSEFAB-LTDAVK	VMDLPTQ-EPALGTT	151		

Figure 36 cont'd

1	PSA	271	285	286	300	301	
2	hk2	SLYTKVWHYRKMKD	TIVANP	-----	-----	-----	261
3	hk1	AVTKVWHYRKMKD	TIAANP	-----	-----	-----	261
4	protease	SVAVRVLSYVKMKD	TIAENS	-----	-----	-----	262
5	zyme	GVYTNLCKFTENIEK	TVOAS	-----	-----	-----	254
6	TLSP	GVYTNVCRTNWLQK	TIQAK	-----	-----	-----	244
7	KLK-L4	GVYTKVKYVDNIQE	TMKN	-----	-----	-----	250
8	NES1	GVYTRVSRVVLNINE	TIRKYETQQQKWLKG	PQ	-----	-----	277
9	KLK-L5	AVYIQICKYNSMINK	VIRSN	-----	-----	-----	276
10	neuropsin	GVYTIICKYVDNIQM	IMRNN	-----	-----	-----	248
		GVYTNICRYLDNIKK	IIGSKG	-----	-----	-----	260

FIGURE 37

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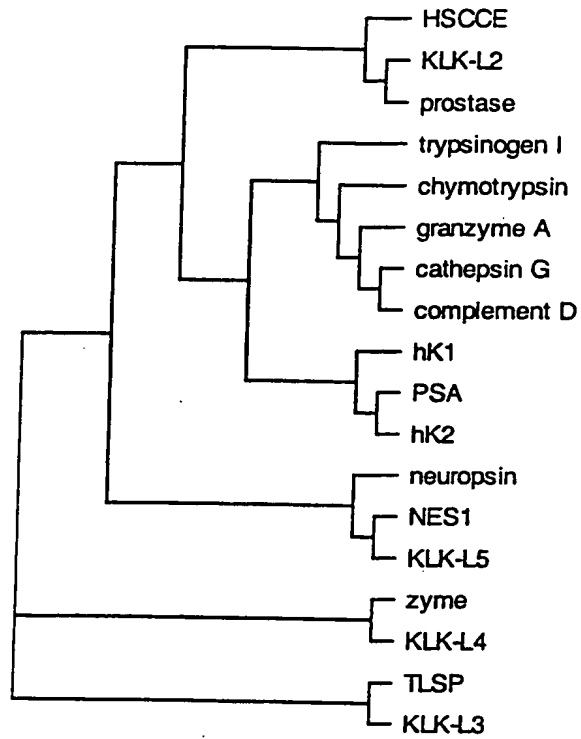


FIGURE 38

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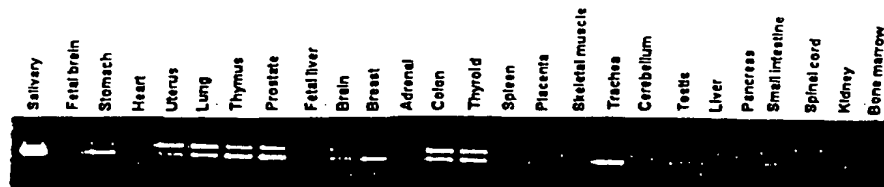


FIGURE 39

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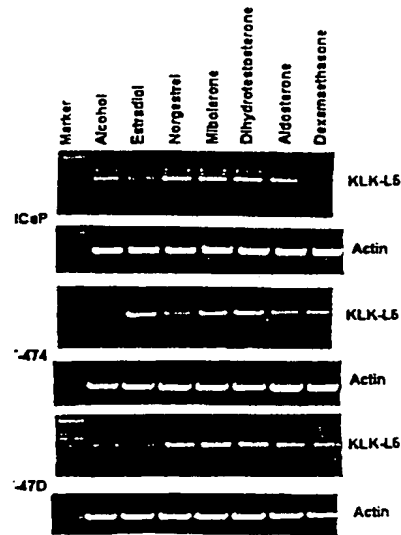
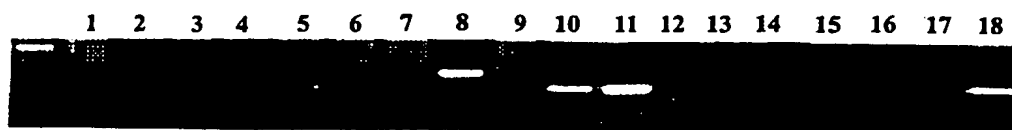


FIGURE 40



ATCGTGTAAT CACCGCCACA TCCAGTGCAA AGCTGATTCTG TCACCACAGA GCAGCTCCCT
CCTGCCACCC CATCCCTGGG TCCCAAGAGA ACCCTTTCTT AAAAGAGGGA GTTCTTGACG
GGTGTGGTGG CTATGCCTG TAATCCTTGC ACTTTGGGAG GCCAAGGAGG GTGGATCATT
TGAGGTCAGG AGTTTGAGAC CAGACTGGCC AACATGGTGA AACCCTGTCT TTAATAAAAA
TACAAAAAAA TGAGCGGGGC ATGGTGGTGG GTGCCTATAG CCCAGCTAC TCAGGAGGCT
GAGGCAGGAG AATCGCTTGA ACCCAGGAGG CAGAGGTTGC AGTGAGCCGA GATTGAGCCA
CTGCACTCCA GCCGGGGCTA AAGAGTGAGA CTCTGTCTCA AAAAAAAAAA AAAGAAAAAG
AAAAAAAGAA AAAAAAATAA AATAAATAA TAAATAAAAT AAATTTAAAA ATTTAAAAAT
AAAGAGGGGG TTCTTGTGTT GATGCCGAGC CTGAACCAAG GCAGAGGAGG CCGGGAAGGC
TTCCCAAGGC CTTCAGCTCA AAGCAGGGAG GCCCATAGTT AAACAGAAAC AGTTCAGGAA
TCACAGAAAG GCACCTGGGG AGAGATGGGT GTGTGGCTCC AGATGCAGGT GCCCAGACAG
TGCGTCCCCA GGTGTACAGA CAGACCCAGG CCAAGCTCCA GCTCAAAGAG CCAGCCTAGG
GGGTGCCCA GGTGAGGGA GGCTGAGTCA GGCTGAGGCC GGGGAACAGT TGGGGTAGCC
AAGGGAGGCA AGCAGCCTCC TGAGTCACCA CGTGGTCCAG GTACGGGGCT GCCCAGGCC
AGAGACGGAC ACAAGCACTG GGGAAATTTAA GGGGCTAGGG GAGGGGCTGA GGAGGGTAGG
CCCTCCCCCA AATGAGGATG GAACCCCCC AACTCCAGAA CCCCCCTGCA GGCTGGCCAG
AATCCTTCCC CATCTCATT CACTGTCTC TCCTGCTCTC TGCCGTCTCC TATTTTGAAT
TTCCAACCCC GTCTGTAAAG ACTGTCTCTC TGTCTCTGAA TCTCTGTCCC CTTCTCTTTC
TGGGTCTCTC TCCCTCTCCC TCTGGGTCTC TGTCCCCCTC TCTGGGTCTC TGCTACTCTC
TCTTTGCATC TCCAGCTCTC ACTTTGTCTC TGCACCTAGC AGATCCCAAG CTGGGGAATG
CCAGTTCTGG CACCAACCTT CCTGCTCCCT GCTGGGGCCT CTGCTCCCCC ATCTCTCAGG
AGTCGAAAGT GAGAAAGCAA GGTGGGCAGC TCTGCTCCAG GTCCAGGTAT CTCCCGCCCA
CCTCCTGCCC GTCTCTATC CCACCCCTCC TCTCCATCTC TCCCTGGGCG TGCCATCTCT
CATCTAGGCC TCCGTCTCCT CTGTCAATTGT CCCCATCCCC TGTAGGTGCC CATCCTTCCC
GTCTCCCCTC TGCCATCGGC CTGCCGTGCC CATCCTCTTT CTCCCACCAT GTCCCGTTCT
CTTCCACGTC TCATGCCCCG ACTGCCCTCA TCATCATCGC TGTGTGTTCTG TGTGTGTTTG
TGGTGAGTGC CGCATGGTGG GGGCCTCTCG GCCTCTCTCC TCTCTCTCCA CTCTTCTCTC
TTTCTGTGTG TCTGTTTCCA TTCTATCTCC ACCTTCTTCC CTCCGTCTTT TGCTTTCTA
TCTCCACTTC TCCACACCCC TCTCTCCCTG CGTCTCTGTG TCTCCCTCTT CCTCTGTCTT
GTTTTTTTCC CACCGTCTGC CTCTCTGTG CCCTGTCACA TCCAACCTCC ACCGGTTTCT
CCAGCTCTCT CCTCAGTTCC TTCTCTCATG AGCACACCTG CCTCTGTGCT CGTATTCTCTG
GACTCCTCTC TCTCCACTGT CATATCTTCT CATTCAATTT CCCAGTCTCT CTCTGTCTCT
TGCTCTCCCC CTCTGTCTCA CTCTGTCTCT GTCTCTCTCT TTCTCTCTCT CTCTCTGTGT
CTCTCTGTCT GGCTCTCTCT CTGTCTCTCT CTCCATCTCT CTCTCTCTCT CCCCCCGTCTC
ACCTGTCTCT TGTCTCTCTC TGTCTGTGTG TCTCTCTGTG TTTCTCTCTC TCCATCTCTC
TCTGTCTCTC TCTCTCTCTC TCTCTCTCTC CCTCTCTCCC TCCTCCCGTG ACTCCCTCTC
TCAGTCCATC TCTTCTCTCC TCTCTCAGCC CTTTCTGTGCC CTTTCTCTCTG AACTCCCCA
CCCTGGTTTC CTGACTCCAC CACTAGATCC ACCACCTCCA GCAACTGGGA ACCCTCCCCT
GCCACCCCTG CCCTGGGGTC CCCTCCAGG ATTCTTCTTA GATTATAGCA TCTTCCCTGG
GCGGGTTCTC ATGAACAATT GTGGCTGCTT TTTTGGCCAG ACAGGGGAGG GAGGGGATGG
GATCAGGGAG TCCTGGAATG GGAAGTAGGC AATAAAAAA AAAAAATGTC AGAAGCAGGG
CGGCGGGAGG TGGGGGAGG GCCAGCTGTC CTTACCAGGG ATAAAAGGCT TTGCCAGTGT
GACTAGGAAG AGAGACACCT CCCCTCCTTC CTTATCAAG ACATCAAGGA GGGACCTGTG
CCCTGCTCCA CATCCTCCCA CCTGCCGCC GCAGAGCCTG CAGGCCCCGC CCCCCTCGTC
TCTGGTCCCT ACCTCTCTGC TGTGTCTTCA TGTCCCTGAG GGTCTTGGGC TCTGGGTAAG
TGCCCCCTGC TGTCTCTGCC TCTCAGCCCC CGGTCTGTG GAAGGTTCTT TCTCTCTCAC
TTTTTCTCTG CATTTGACAG GACCTGGCCC TCAGCCCCTA AAATGTTCTT CCTGCTGACA
GCACTTCAAG TCCTGGCTAT AGGTAAGAGA ACGGTTGGGT ATGACACAAG GGGGTCCCCT
GGAGACTCTG AGAAGAGATG GGGATGGGTC CTGGGGCCCC CTGGATGCTC ATGGTGACCT
CATAAGAAAG AGCAGGGAGT GGTTTGGGGG TCATGGTGGG GGAACGTGCT GGAGGCCATA
ATTCTAGTT GTGGAGGTGC TAGGGAATTG TGGGGCCGGG GAGAGAGGTG TTTATAAGGT
CTGGTGCAAA ATACATAAGG AATCTTAGGG AACTATTAGG TCCTGAGTGG GTCATAGCAG
AAAGATCACG GGGCTCTACC TGACTGTGTT AGGAAAGAAA CAATGTCAGA AAGATGTTTT
GTTGTACAGG GGAAGGTGGA GAAGGATGAT GGGATGGCGG GATCGTGGCA TGGGGTGGCG
GGATCGTGGC ATGGGTGTGT GAGGTGGATG GGGGCAAGTG TGGGGCAAGA GATGCCGGAT
CCTTGGGGTC CCACTGAGTG GGAACGTTGG GGAGGAGACA GGGAGGTCCT TGAATGTGTT
GGGGAAGGAC TCATTGGGGG GAAATGTGGC ATATTTCGAG AAGTGATCAC AGAAATTATG
GGAGCATAGA GCTAAGGGTC GTAGATGTAG CAAGGCCCTG GATAAGGTGG CCACGGCACA
AAATAAGAGA TGCTACGGAG GTGACTTGGG AGGTGAGTCA GAAAGCTCTC CGTCTGGGG

FIGURE 41 (CONT'D)

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CAATAACGGG GTCAATATTG GGCATGTCTC ACCCTGGGTG GGACAGATAG AGGCGGGCAG
TTTAGGGGTT AGACCAAAAG GAAGGGGATT TGTCAGTTTT GGAATCCTAC AAACCTTGTTG
AGTGGAGAGT GTTTGCTCAT CTACTTTCCC CACCCAATCC TGTCCACTCC TAGCCATGAC
ACAGAGCCAA GAGGATGAGA ACAAGATAAT TGGTGGCCAT ACGTGCACCC GGAGCTCCCA
GCCGTGGCAG GCGGCCCTGC TGGCGGGTCC CAGGCGCCGC TTCCTCTGCG GAGGCGCCCT
GCTTTCAGGC CAGTGGGTCA TCACTGCTGC TCACTGCGGC CGCCCGTAAG TGACCCCTC
CCCTGTCCCT GTACCTAGTG AATTCAGAG TCTAAAGCCC TAGAGCTGAG CTGAGAACCT
GGATCTCTGT ATAGAACCCA ATGTAGTGGC TGGCTCCTGG TTTGAGGTCT AGAGAAGAGC
CTGGAACAAA AACACAGCTC GGGATGTGGG CTCCTCCATA AATCTCGAAC TCAGCATAGG
TTCTGAAAGC AGATGGGCAG CTTGGAACCC ATGGACCTGC TGAGAACCGA ACATCTGATC
CAGTGATTCT TCCAGAGGCC ACACATTACA TCGAGACCAA GCTTAGCCCA TTCCAGATTG
GTGGCTGAAT TCAGGACCCC GTCTACATTC AGAAACTCAG GACACTACGT AGAACTCAGA
GCCCAGTTCA GGACCTGCAG TCTAGCCATA AATCCAGAAC TAGAACGCTG CTCACAGCTG
GAACATACAA CTCTAAGAAT AGAGGCAAAA CCTGGAGGCT GTTTCACACC CAAGGTTTAG
TTCAGAGTCT AGTCTATAGC TCCGCTATGA GCAGACTTCA ACCCAGTGTT TGAATCCAG
AATGTGGCGG GTGCGGTGGC TCATGCCTAT AATCCTAGCA CTTTGGGATG CTGAGGCAGG
CAGATCACCT GAGGTCAGGA GTTCGAGACC AGCCTGAGCA ACATAGAGAA ACCCTGTCTC
TACTAAAAAT GCAAAATTAG CCAGGCATGG TGGCACATGC CTGTAATCCC AGCCACTCGG
GAGGCTGAGG CAGGAGAATC ACTTGAACCT GGGAGGCGGA GGTTCAGTG AGTCAAGATC
GCACCATTC ACTCCAGGCT AGGCAACAAG AGCGAACTC CATATCAATC AATCAATCAA
TAAATCCCAG AATGCAGATC CTAATCAGAA GCCCCATATA AAACCTAGAC CCCTCCTAAA
TTCTAGATCT GAACTTACAA CCCAGACCCC AGCCAAGAGG TCAAAATGCC TATAAGCCAT
ATCTATGCCA TAAACAGGTC AGTCTAGAAC CTAGAGATCA AAGCTCAGGC CAGAGTCTAG
AATATAAAGG CCAGAATGCA AACCAGACTC TAGAATCTTG GATCCGGGCC ATAACCTAG
GCTCCAATA GAACCCAGAG CCCAACCTGA GGTCAAGGGC TAGGGCCAGA GTCCAGAACC
AAGAGCCCTA TAATCCAATA TGAAACAGAC CTGTAGAGGC TGGGTGCGGT GGCTCACGCC
TGTAATCCCA GCACTTTGGG AGGCTGAGGC GGGAGAATCA CTTGAACTGG GAGTTGGAGG
TCGAGAGTGA GCTGAGATCG TGCCACTGCA CTCCAGCCTA GGTGACAGAG CGAGACTCCA
TCACAAAAAA AAAATAAATA AATAAATCAA GTCATAATCC AGGTTTCGATC TAGAATCCTG
ATCTTAGCAT AGAGTCAAAA GTTTAAGATG TCTAGAATC AGAACCAGG CTGAGAACAG
AATGGTGCCT ACTCCGGAAT ATCAGTTCCG ATTTAGAGCC TAGACTCATA ACGCAGTTTC
GCTTAGGACT CAATGCACCG AGCCCAGCAC AGACCCTGGC ACGGAGCCAA GCTCTCCCAA
TCATCACCTT CTTCCCAAGC CAGGAGCTGG AGCCCAGCCC AAGAGCGGAA GGAGAGGCAG
CTGGGGCTGG GCCGAGAGAA TGCCCTGGCC ATGGGGAAGG GCACAGGAGG CCAAGAATGC
TCGGCCTGCA GTTAGTGAGA AGCAGGCTAG ACCTCGGGGA AGACTCGTCA CCCGGCCAGG
GAACCGGGCT GGAGGGTGGG GAGGAGTCTC TGGCTCAGAC CCTGAGCAGC GCTTCTCTTG
GGGTCGTGG CCAGGATCCT TCAGGTTGCC CTGGGCAAGC ACAACCTGAG GAGGTGGGAG
GCCACCCAGC AGGTGCTGCG CGTGGTTCGT CAGGTGACGC ACCCAACTA CAACTCCCG
ACCCACGACA ACGACCTCAT GCTGCTGCAG CTACAGCAGC CCGCACGGAT CGGGAGGGCA
GTGAGGCCCC TTGAGGTCAC CCAGGCCTGT GCCAGCCCCG GGACCTCCTG CCGAGTGTCA
GGCTGGGGAA CTATATCCAG CCCATCGGT GAGGACTCCT GCGTCTTGGA AAGCAGGGGA
CTGGGCCTGG GCTCCTGGGT CTCCAGGAGG TGGAGCTGGG GGGACTGGGG CTCCTGGGTC
TGAGGGAGGA GGGGCTGGGC CTGGACTCCT GGGTCTGAGG GAGGAGGGGG CTGAGGCCCTG
GACTCCTGGG TCTCAAGGAG GAGGAGCTGG GCCTGGACTC ATACGTCTGA GGGAGGAGGG
GCTGGAGCCT GGACTCCTGG GTCTCAAGGA GGAGGGGCTG GGCTTGGACT TCTGGGTCTG
AGGGAGGAG GGCTGGGGAC CTGGACTCCC GGGTCTGAGG GAGGAGGGAC TGGGGTCTG
GACTCCTGGG TCTGAGGGAG GAGGGGCTGG GGGCTGGAC TCCTGGGTCT GAGGGAGGAG
GTGCTGGGGC TGGACTCCTG GGTGGAAGG AGGAGGGGCT GGGGGCCTG ACCCTTGGGT
CTTATGGGAG GGTAGACCCA GTTATAACCC TGCAGTGTCC CCCAGCCAGG TACCCCGCCT
CTCTGCAATG CGTGAACATC AACATCTCCC CGGATGAGGT GTGCCAGAAG GCCTATCCTA
GAACCATCAC GCCTGGCATG GTCTGTGCAG GAGTTCCCCA GGGCGGGAAG GACTCTTGTC
AGGTAAGGCC CAGGATGGGA GCTGTGGTAG GGATTATTTG GGAATGGAAT TTAAGCAAAT
GATGTCAGGA GCATGGAAGT CTGCAGAGT CTTGAGAAGA GAGTGAACCG CAGGCACAGA
GAGATTCCGA TAGCCAGGCC ACCCTGCTTC CTAGCCCTGT GCCCCCTGGG TAATGGACTC
AGAGCATTC TGCCTCAGTT TCCTCATCTG TCAGGTGGGA GTAACCCTCT TAGGGTAGTT
GGTGAATGG GATGAGGCAG GTTGGGGAAA GATCGCAGAG TGGCCTCTGC TCATATGGGT

FIGURE 41 (CONT'D)

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CTGGGAAAGG CTGTGCTGAG GCTTCTAGAA ATCTTAATGC ATCCTTGAGG GAGGCAGAGA
TGGGGAAATA GAAAAAGAGA GACACACAAA TGTTCACAG TTGGAGCGAA CAGAGAGGGG
CCTGGTGAGA TTCAAGGGAC AGGCAGGTGC ACACAGAGAC AGAGCCAGAC CCAGCGGAGA
GGGAAGGAAG TGCCCCGACC TCCGGGGCTG AGACCTCAGA GCTGGGGCAG GACTGTGTCC
CTAACTGTCC ACCAGTGTCT CTGCCTGTCT CCCTGTGTCT GCTTCTCGGG TTCTCTGTGC
CATGGTGGCT CTGGCTACCT GTCCATCAGT GTCTCCATTT CTGTTCTCTC CCCTCAGGGT
GACTCTGGGG GACCCCTGGT GTGCAGAGGA CAGCTCCAGG GCCTCGTGTC TTGGGGAAATG
GAGCGCTGCG CCCTGCCTGG CTACCCCGGT GTCTACACCA ACCTGTGCAA GTACAGAAGC
TGGATTGAGG AAACGATGCG GGACAAATGA TGGTCTTCAC GGTGGGATGG ACCTCGTCAG
CTGCCCAGGC CCTCCTCTCT CTACTCAGGA CCCAGGAGTC CAGGCCCCAG CCCCTCTCTC
CTCAGACCCA GGAGTCCAGG CCCCCAGCCC CTCCTCCCTC AGACCCGGA GTCCAGGCC
CCAGCCCTC CTCCCTCAGA CCCAGGAGTC CAGGCCCCAG CCCCTCTCTC CTCAGACCCG
GGAGTCCAGG CCCCCAGCCC CTCCTCCCTC AGACCCAGGA GTCCAGGCC CAGTCCCTCC
TCCCTCAGAC CCAGGAGTCC AGGCCCCAG CCCCTCTCTC CTCAGACCCA GGAATCCAGG
CCCAGCCCTC CCTCCCTCAG ACCCAGGAGC CCCAGTCCCC CAGCCCCCTC TCCTTGAGAC
CCAGGAGTCC AGGCCCAGCC CCTCCTCCCT CAGACCCAGG AGCCCCAGTC CCCAGCATCC
TGATCTTTAC TCCGGCTCTG ATCTCTCCTT TCCCAGAGCA GTTGCTTCAG GCGTTTTCTC
CCCACCAAGC CCCCACCCTT GCTGTGTAC CATCACTACT CAAGACCGGA GGCACAGAGG
GCAGGAGCAC AGACCCCTTA AACC GGCAAT GTATTCCAAA GACGACAATT TTAAACACGC
TTAGTGTCTC TAAAAACCGA ATAAATAATG ACAATAAAAA TGAATCATC AGTAATTGTA
TTCATTATC CATGTGTTTA CTTTTTATTT TTTGAGACAA GGTCTTGCTC ACTCTCTGG
TGAAATGCTG TAACGCAATC ATAGCTCACT GCAACCGTGA CCTCCTGGGC TCCAGTGATC
CTCTTACCTC AGCCTCCCAG GTAGCTGGGA CCACAGGTGC CCGTCACCAT GCCCGCTAC
TTTTTAAATT TTGTGTAGAG ATGAGGTTTC CCTGTGTTGC TCAGGCTGGT CTCGAACACC
TGACCCCAAG CAATCCGCC TCGTCGGTTT CCCAAAGTGC CGGGATTGCA GCGGTGAGCT
GCCGCGCCCA GCCTTATCCA TCCAATTAAT AAGTGGCTGC CTCCCTCTTT GCGTGTTTTT
ACCATGCCAA GCCAGGAGCT GTGTACTGAC AAGTGGCTGC CTCCCTCTTT GCGTGTTTTT
CCTTGGGAGT CCCCCGTCCA CCCCAGTGTG TCAGGTTTCT AGACGGAAC ACCTCAGCCC
TGCAGAGTGA CCTTGAGCAT GACTGCCTTC TACCAGCCTC CTCCCTGGAG CCCCTGTGGT
CCAGGGTAGG GAACTAAGTG CCTTGTTTTCC TGGAAAATT TATGCAAATG AAGATGTCTT
CATTTTCTTA ATCAGATCTC AGGTGAGGAG AGTTGAGTTA ATCAGAGGCT TCAGTTCTCTG
CCCAGGCAAA GCCCTTCTCT CATTTTATTA ATTTATTTCC ACTCTTCATC TCTGGCTCTG
CTCCCCCTCC TCCCCACAGG CACCGACATA AATGGCTTTG AGTGCCCTGC ATCCTTGGA
AACAAGGCAG TGTCACAGTG TACTGTTTTCT AATTTACATG AAACCATTTG GTTAGGAATC
TCATTCTCTT TCTTACTTTC ACTCATCAAC AGCTATTGAG CACCTACTAC GGGCCAGGCA
TTGGTCTATT TATTAGGCAC CTGCTATACA CCAGGCATTG TTCTGGGTGC TGGAGGAAGA
ACTGTGAGCA AGCCAGTCAG AATCCCTGCC CTCACAGAAC TTATATTCTA GCAGGAGATG
ACAGACAAGA AGCCATAAAC ATAATTTTAA AATAAAGCAG AGTCCCTATG AGTAACGAGG
TCAATAAACT TGGGCTGGGC GGCAGGCCCA ATGTGTGCCA GGGCCAGCTC ATACATGCTC
GCAAGAGTCT ACCAGCAAAT TTTCAGGAAT TTCGAGAACC AGTTGCTAAA TGCAGCCATC
ATTAAAAATT AAATTACATA AGCGTATAAT TACATAATTG ATTAAAAAAA TTGTCAAGTA
ATACTCAAAA CTCAACTGTT GCTAATTATT TCAACTAATA CCTATGCTTG GGAGTGAGAT
ATGTCTCTTG TACTACGTCT GTAATGATGA GTTCTGTGAC ACCTCTTTCC AACTCCCCAA
CTCTGTCTGC ACCAGTAGCT TGACAATAGC CAAAGAAGAA GTATTTACTG CACTGAAATT
GAAAAACACT ATAGATAGGG CTTTGCCGGA CAGTCATTGC TAAACCTTTA CCAGGCACCC
TTGGATGGGT CTGCCGTTGA ATGACCTCAT GATCTTAGTG TCTGTCTTCT CAAAGTTCTG
TGCTTGATA CTGCAGAGTA TAGCTAAAT AGAATGTTGT ACTCACCTTA TGTTCTATGG
GGACAGCACA GTATTGGGGA ACCCTAAGGT GGCAGGTCTG GGACATGCAC GAAAGATTGC
TGGGAAGTAG AGGCTCCCTC CTTTCTCTCA TCCTCCACC CCATCCTCCA GTGTCTGGTA
ACCACCATC TACTCTCTGC TTCTAAGAGT CTGAGTTTTT TAGATTTTAC ATGTAAGTGA
GATCATGCAG TAATTGTCAT TCTGTGTCTG ACCTATTTCA CTTAACACAG TGCTCTCCG
GTCCATCCAT GTTGTACAA ATGACAGGAT TTCTTTCTTT TATAAGGCAG AATAATATTA
AATTATACTG ATACTAATAT ATTACATTTT CTTTATCCAT TCATCCATCA ACAGACACAT

FIGURE 42

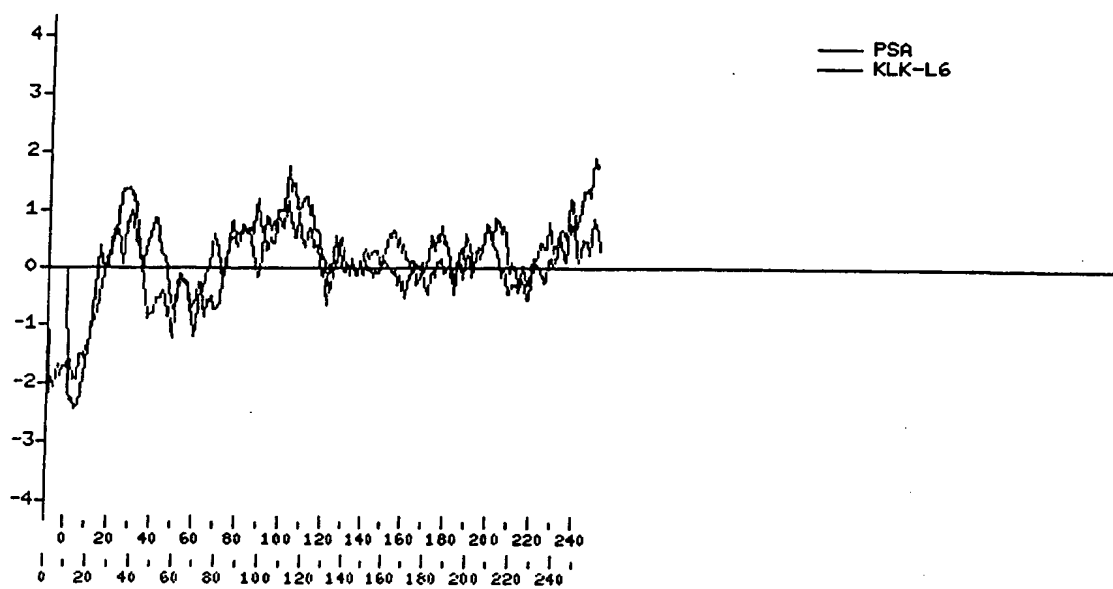


FIGURE 43

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FIGURE 44

